

<213> Glycine max

<223> Clone ID: jC-gmf102220073g12d1

<400> 5715

gtctgcaaac ttaataaata aatagcatta aaatttcata tggtagaact tcatgctgtc 60
tgataaggaa ataaaaccaa tacaataggc caaaactgca agaattgccc cacagacaac 120
cctatatctt cacgcaatat ggtaagaaaa aacaattgag gaatagaacg agaagctccc 180
acgccacaat tccctaacct cctcttttgg actcaatcgc actattaaca ctcataatat 240
acacattcta gagaaagttc cctttccaat cacaattgac tctgcattct caaaactgat 300
atagaacacc atgcaagaat gaatgatgga aaccatctta tggcaaaaag aatgggtaca 360
aatatagaga ccaccaaact ggaaaaaagc ttgttcccaa aaagagcaag acaccaactg 420
ccaagccaga tgctatgaag aaatgatgga tatgcagcaa agcaatgaca actatgtaga 480
aaggatagat tgcaatgc 498

<210> 5716

<211> 618

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073h01a1

<400> 5716

aaaaaaatat attataatat ataaaataaa tttatagaaa ataaaattta actatataac 60
aaatttaata aaaaaataa cgagaaaaat aaatataaac actaaanata taaaaaaaag 120
cgagaaagtt gtaancccat aaanttttnn nnnnnnnccc cntnnntnnn nntnnnnnt 180
gtggnnaaan taaataaata aataaacttt ttaaatttgc atctttaaaa atagagggga 240
tgactgcatt aattattgac ccaagatctg ttagagcaga agtgtctgga tattacatac 300
aacggcttgg aattcatgtt gaaatgggta tagatttaaa acaaggtttg tcaaccataa 360
gcaatgggaa tgtagttgtt aatatgggtc tgattgagca agaggtttgg gatagagatt 420
taggcttgtc atctcacttt gtcaataaca cgaggagaat tgatcatggg gttcctccaa 480
aactgttcat tcttgataaa tctagtaatt cttttaaaga tagcgtaaac ttgggtgatc 540
ataatcctac tgtgatcacc aaacctctga gagcaagtat gcatgctgac tcaactacaac 600

gagccatggg tgtccaaa

618

<210> 5717

<211> 524

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220073h01d1

<400> 5717

aaaaatgtaa cgcgccctagg ctagattact ataagttgtg ttattacata cacaaggatg 60
agactccaga acctgtatta taatacaccc tagtcttcta atcaggctca atcatttcgg 120
ctgactttac atggaagaag aattaatggg ttatgggtacc cttaacaacc aattacaact 180
caattgcaac caatcaaact tgggtcctat gtacactccc tgccacaaaa acaatgtttt 240
aaaacgggaa cccttcaaac acagcagaaa agacaacaaa atagggtcaaa aaggtagaat 300
gaaccatttc tgaacttcta caatattatc cccctttgtt ccatttgctt ttatctttca 360
gatgagatag atagcattct tctgtctcta gtgaacaacc accaagcttt gaggtgggta 420
aatactaaaa catgcactgg ctgttaaata gggaacttac tctgaggaga cttcggacct 480
atttgccact tcgagtgtct ggatacggac agtacgctcc atat 524

<210> 5718

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220073h02a1

<400> 5718

tctaccctaa cataataaaa aataaattca cttaatttta taaatcataa cagaaattaa 60
acaataaatt aatatacatt ttattctata taatatactt catttatana tataataaac 120
tccgttcact tgaancccn nannnnnttt ngnnaaatc cntntttttc ctttatttta 180
acaaatatta taaaattact taaatataat tttcataact cattataaat aacaatatat 240
actccgtaga aaatattatc gtttgacatt aatcttaagt tcaactcata caagtactgg 300
caaaccctta tgaattctac tgaaatattc cctaaggcct tcccacatga ttacaaaagc 360

attgatgttc ttgaggggtga tggcaagtct cctggttcta tccgccacat aagttatggt 420
gaaggttcac cacttgtgaa atcatccttt gagaagattg aggctgttga tgaggaaaag 480
aaggtagtgt cgtacactat cattgatggg gaactcctcc agcactacaa aacattcaag 540
ggagacaatt cagtgactcc aattggcgat ggatgcgagg tgaagtggag tgctgtgtac 600
gaaaaggtta accatgatat ttctgat 627

<210> 5719
<211> 447
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073h02d1
<400> 5719

gatactgtaa cattatatta gataaggtat ggtacaagta caaccatatt atttaataat 60
agtccataat acatgcacag attaaaacat tagccattat taattaagag gcatgcatag 120
aatagaacct ctctatgctg ttgcttgaac ataggcatcg acctctagga aattcttgac 180
tgcaaaatct ttgacaaggg ttggatcaga aatatcatgg ctaacctttt cgtacacagc 240
actccacttc acctcgcatc catcgccaat tggagtcact gaaatgtctc cttgaaatgt 300
tttgtagtgc tggaggagtt ccccatcaat gatagtgtac gacactacct tcttttcctc 360
atcaacagcc tcaatcttct caaaggatga ttccacaagt ggtgaacctt caccataact 420
tatgtggcgg atagaaccag gagactt 447

<210> 5720
<211> 564
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073h03a1
<400> 5720

ggaaaacggg tgctcggtcga tnncaagnnn annttnnnng ncnncccnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nncnttttnn cnnntaccnn gnnncnncnc 120
ccaancgggg gaacaaaaag gaggaagtg tgctaacaaa gaggccaaga gaagaagaac 180
ccctagagaa caaagatagt acttatgaat tactagagtc cttatcaaag aggcacaggt 240

catacaacca cataactctcc ctccttgaat cagaggaaga tgactccaca caagacctat 300
 cttctctcat cacttcctc caacaagaaa tcaccaattg tgcctctgat tcggacaccc 360
 ttttgaacca acacagcctc accaacacca ccaccaccac cacaacaaat agtaatttag 420
 aggattgttc atcctcaaca actaaatatt ctagtgacat gatggaggaa catgatgaca 480
 aagaaggggt catgagacac cttcttgaag cttctgatga tgaacttggg attccaaata 540
 aagaggatga atcactcgat cttg 564

<210> 5721
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220073h03d1
 <400> 5721

aaaaaagaag gaattttcat ttacccttaa aagtcaataa aattaacata tgaaatagtt 60
 taaaagatca ttactagcta attaattact tggggtaagg ggaatatata agcctagctg 120
 ctttttttac agatcgacat attgccaaagt agtaaccaac cacacataaa cgtcccatga 180
 ttttaattta caaaaagagg ggacaaaaaa atgaaaaaat aaaaactagt aaatttttca 240
 tttttttcct ccttgattt catcttgaac gcatgaaaac tatgggtttt cactttctat 300
 cccccaccaa aaaaaaaaaa cttgagaaag agttgagact gcaaaagatc ataggagtta 360
 gcagctttat tt 372

<210> 5722
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220073h04a1
 <400> 5722

ggaaaacgcg cggtcgtttc gagaccagct ttgantttnc atgcaccnt ccttgagctt 60
 ngnatttttt tcgtgagctt gatgagaagg aaataaattt tttaccaatg cctggacaag 120
 ttgatttcat tgggggtggg tctccatgcc agggtttctc tgggatgaat aggtttaacc 180

agagctgttg gagtaaagtc cagtgcgaga tgatattggc attcttatcc tttgctgatt 240
 atttccggcc aagggtatttc ttgttgagaa atgtgaggaa ctttgtgtct ttcagtaaag 300
 gacagacatt tcgtttaact ttggcttcac ttcttgagat gggttatcag gtgaggtttg 360
 gtattcttga ggctggagca tttggggttt cttactcaag agacagggca ttcatatggg 420
 ctgcttctcc tgaggatgtg ctgcctgaat ggccagaacc agtgcacgtc ttttcggccc 480
 ctgagttgaa gatcacatta tcagaaaatg tccagtgtgc tgctgtgcgc actactgcaa 540
 atggtgctac tttacgtgca ataactgt 568

<210> 5723
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073h04d1
 <400> 5723

gcaataacaa atattcataa cagggttaaaa aaaattgggc tcaattttca actacacatt 60
 gggaggtaat caattcccaa ccatttcttt cataaacagc caaaatacca tctaatacag 120
 aaaatcctag ttgatagaaa atgagcatca tccattcaat tccttgggtg aggaaagtta 180
 aacaaggaat tagcctcaac aaatgaccaa tggatatcac tatatacaag ggtttctagt 240
 ttttgaacc cggaatgatg atttgcaata tcttgggtgac tgttatgaat acaataagca 300
 tgacctaatg tagaaggccc atcttctaag tggagctctt actgtccact gcttccttga 360
 gctttctccc caatgctgat gctagaggag gaggcacagc attaccaatc tgccggtgct 420
 tgtgtatgat attgccagca aattcatagc tatctgggaa gccttgagac cgagcacatt 480
 ca 482

<210> 5724
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073h05a1
 <400> 5724

ctgaagttag ataccgcatc atatttctcc aggaactcca ccaccgcacc tgaaaacggt 60

gattaccatg tctagcgctc cgaacaacac cctcgctata acagaaatgg ctggagcagc 120
gcatattgta gcaaatcatg atggacttcg acggcagatg atcggaacct catgtctgtc 180
gctacactat cactgttgtc actgcatagg ctgctgggat gaacttgtgc tcacttgcac 240
acgacatgaa atgaattatc ccccgatgat gtcgtgagga ggatggagac tctatatggt 300
tgtacgcggg aacacgagaa gtccatcatg ctggatcgtg tcaagaccgt tatggagtaa 360
cactttccgg actaccactc agctgatgct ccgatggtag agttctaccc gacgacaggg 420
gtcagtatcc g 431

<210> 5725
<211> 377
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073h05d1
<400> 5725

agaaacaatg attcgcataa tttgaaataa atattatcta tgtaaactga taaaagaatg 60
caaggtagca tctctttaga aagaaagttt aattgaagaa attcactaaa ttacagtcaa 120
acaccatgca aatctaaact acagtcttca gtgacagaaa gcacacgcat tgaataaaaag 180
gctcaciaaag ccttatgggtg attgtgctag agaccaattc catgttctat tacaacatcc 240
taatggtaa ctatcaagag agagactagc cttttcgtat gactccaca aaatccttgg 300
ccaatacctg ctatgcatag ttacctcag cagctcgggc agaatccacc ttttgtacct 360
ctccatcttc agggatg 377

<210> 5726
<211> 473
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073h06a1
<400> 5726

gannccgct gatcttcgan cccatttgat ttncagcca cccccccngn nnnnaaaan 60
nacgggcaag gaaaagaaaa ccaccaactt tcatggacaa caccaaagaa agctaaaacg 120
gggttaccat tactagcgtt gccacaagc cccacgctat gaaaaaatgg tggaagcatt 180

gaataatgag gcgaagctaa acgtgtaatt gacggtagag gagcggaacc tactgtctgt 240
 tgggtacaag aacttggtgg gtgctccttg ggcttcgtgg aggattcttt cctcgattga 300
 acagaaagag aaatctaaag ggaacgaaga tagcgtgaac aggatagaag gcacgtatgc 360
 tgaacgcgga atcacgagta agaccaatat gtgcaatgca tgcacgactg tgatggatga 420
 acaccttatg gcctatagct catctgatga acctaccgtc gattttttaca aaa 473

<210> 5727
 <211> 424
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h06d1

<400> 5727

ataaacaatg attcgcataa tttgaaataa atattatcta tgtaaactga taaaagaatg 60
 caaggttgca tcctcttaga aagaaagtca aaatgaagaa attcactaaa ttacagtcaa 120
 acaccatgca aatctcaact ccagtctcca gtaacagaaa gcacacgcat agaataaaaag 180
 gctcacaaaag ccttatggag attttctaga gaccaattcc atgttctatt acaacatcct 240
 aatggtaaac tatcaagaga gagactagcc ttctcgtatg cactccacaa attccttggc 300
 caatacctgc tatgcatcgt cacctccagc agctcgggca gaatccacct tttgttcctc 360
 tccatcttca gggatgtcag aagtccacaa ggtgagaatg tccctcaaaa gctgcgtaat 420
 tagg 424

<210> 5728
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h07a1

<400> 5728

gagatcacta atgagctcaa ccagttttgt cagatttctg agaccaatgt gtataagggg 60
 gtccagaaca ggcgggctcg ctccaaaaga aagcagcaga atgtggcgcc tagtgctaata 120
 gttgaatcag aagtggagac tgaggttgat tctaaggata agaagacaaa gccggacgaa 180
 tttcaggccc ctcttagcgt ttctgctggg cctgctgata atttaggctt ccagaacctat 240

gatagttcgc agtacttgaa tccagaatcc aacaaaccag attctgtctt cccgtctgat 300
 gggaccagac attttcatca tgtgcctgct tttgatgggc tgctatcaaa ctcaaggagc 360
 aactatctta ctggaaaact ggaaacacct gagaactacg aattatacca gccagcaggt 420
 gactacaaca ttgcaggtca acctccaatt tgaccgcaca ttcttgacgt gacaccagc 479

<210> 5729
 <211> 449
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h07d1

<400> 5729

atcaaagagt aagactagta cataattatt atgaatagaa tttagtgttg taaactatga 60
 taatagtagt tacttttttt tcgttttgct gattaaatta ggcactaggt aattcatttt 120
 aaccgtaagc ctaaaaaaat gccccttttt ttgccttcag ttgcatgtgc ctatgatgac 180
 aaatcagaag cttagcaata aaattacaac tctacaaaag ttggtttcac cttttggcaa 240
 ggggagtcac cattgctaac ccctaattgga caaaaactag atccttcatt tcttactagc 300
 ataataaaca cctttaagaa agtgtggcct tggctttctg aatatcctgc agactgacac 360
 cgcacagtt cttcaggagg cttctcttta tatcaagctt cttcaagcac aaatccgggt 420
 acatatttga tactcttatt ttgttctgg 449

<210> 5730
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220073h08a1

<400> 5730

ggggacctgc gtgctcctcc gangccaact tnannntttn gngaannncnc nnnanntnan 60
 aatananntn gaggaaaant ganatntaan aaaacatttt tggntgttat tttgaggacc 120
 aatgttgatt tgtgtggtn taagatcagg cgcggcctta ctacaaacga gagcaacact 180
 aactgccgta ccataatgct gatgttttat tacaagtgga gactgtggca ggctctagcg 240

ataggaagac atagcctcac taatctcagg ccacagctag cgcacactct tggactgctg 300
gtattaaagg cttacaaatc tcagagcctt tgctttactt gggactgaa tgcaccatgc 360
ctgactgtgc ttttccatct gatgggaccg gacatgtgta ctctgaccct ggttcttctg 420
ctctgttata aaactaacag ggcttctg 448

<210> 5731
<211> 339
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220073h08d1
<400> 5731

atcaaagagt aagactagtc cataattatt atgaatagaa tttagtgttg taaactatga 60
taatagtagt tacttttttt tcgttttgct gattaaatta ggcactagggt aattcatttt 120
aaccgtaagc ctaaaaaaat gccctttttt ttgccttcag ttgcatgtgc ctatgaggac 180
aaatcagaag cttagcaata aaattacaac tctacaaaag ttgggtttcac cttttggcaa 240
ggggagtcatt cattggtaac ccctaattgga caaaaactag atccttcatt tcttactagc 300
ataataaaca cctttaagaa agtgtggcct tggctttct 339

<210> 5732
<211> 672
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220073h09a1
<400> 5732

aaaaagaaaa aaaaaaaaaa agaaagaaga aaaaaaaaaag aacaaaaaaaa aaaagagaaa 60
aaaaaaaaaa aaagaaaaaa aaaacaacta cctctgannn cagagagAAC gtningaacac 120
aaaannnaan aaaaanaaaa aannnaaaaa annaaaaaaaa naaannnaaaa aaaaaaaaaa 180
aaagaaaaaa aaannnaaaa caaaaaagaa aaaagagaaa aaaaaggagag aaaagaaaaa 240
aaaaaagaga aaaaaaggaa gagaaaaaga aaaaaaaaga aaaaaaaaaa aagacanaga 300
aaaaacgaaa aaaaaacaan gaaaaaaaaa aaaaggaaaa gaaaaaccac aagaaaacaa 360
caaaaacaaa aaaaaaaaaag agaagggggg gaaaaaagaa aaaaaggaga cgaaaacaaa 420

aaaaaaagga aaaaaagaaa aagaaaaaaa aaaagaggaa ncaaaaaaag aaaaggaaga 480
 aacagaacga aagaacaaaa cgaaagaaaa aacaagaaaa aaaaaaatga aaaagaaaaa 540
 aaaaagacag aaaaagaaaa tgaggggaca aaacaagaaa agcaaagaaa gaaaaaagaa 600
 taaaagaaga aaaaaaatga aaaaaaaacc cangaaaaga aaaaaaaaaa aaaaaaaaag 660
 gggagagaca gc 672

<210> 5733
 <211> 291
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h09d1

<400> 5733

ataacataca aagcatatga cacaattacc tacatgtgta aacggtgctt acactataac 60
 aacccgacca gggcactttc acaaagagaa acctcatagc gtatcactac tatgatatga 120
 ccaacacctt tctatcacia gcaaaactct aatctcttaa taatctcctt cccaagggca 180
 caacaataaa aaagttcaca ctatactaga ctgaggcatg cccttggttt ataatatcag 240
 agcttatagc tgacaagatt gttcgttaacc ccaactacgg gaccaacagg a 291

<210> 5734
 <211> 118
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h10a1

<400> 5734

gccctcacag tcacctgtgc tatattaagc gcgctcctac gcgctcgtgg caacagtgtg 60
 catgcgttgc aaaccctaac tacctcattt ccatggtgtt acaaaagcac acggtcga 118

<210> 5735
 <211> 272
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220073h10d1

<400> 5735

aggatacaca gcatatacta catttaccta gttgtgttga cgcggtaac attataacaa 60
 cccgacatgg gcactttcac gaacgtaaac ctcatagtgt ctcacttcta tgatgtgacc 120
 aactctgtgc attgacaagc aaatctttaa ggtcttcata ctctaaaccc ctagggcaca 180
 gtcttgatat atttcacact ctattagaga gatgcatgca actgttttct aataccagag 240
 ctatgagctg aaatgatcaa tagtaacccc aa 272

<210> 5736
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220073h11a1

<400> 5736
 ggataaggca gagagagaaa aacaaacaaa caaagcggct tccaatggcc actctgcaat 60
 tcaccttcac cgactcaacc acattgttca ggccttctct accttccacg cgaaccttct 120
 ctcgaaaccg aagcctcatt gtcaaagcct cttcttcttc ttctgacgac ttctccaaaa 180
 gcaggcgacg cttcatcgcc gaaaccgccg cactctcggt ctogctccct cagttagcgg 240
 cgcgtgccga agacgcgctt tcggagtggg agagagtata cctccctatc gaccccgggc 300
 tcgtgcttct cgacatcgct tttgtccccg acgatcccaa ccacggtttt cttctcgga 360
 cgaggcaaac cattctggag acgaaagatg gaggaacac ttgggctccg cgttcgattc 420
 cttctgctga agacgaagat ttcaactatc gcttcaattc catcagcttc aaaggggaag 480
 aagggtggat tgtcggaaaa cctgcgattc tgttgtacac ttncgatgcc ggagacaagt 540
 gggagaggat acctcttagt gctgaacttt caggggata 579

<210> 5737
 <211> 293
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220073h11d1
 <400> 5737

gaccgaaaat tgagttttaa tttgaaagga accgggggaa accaatttca cattggcaat 60

aaaaatctct ttttacaaaa gggaaggggg ggaataaacc cccccccatt tttttccccc 120
 ccccgggggg gggcgaattg atccccctact gttccccatt taaaagaaag gaaaaccggg 180
 ggggtgtaaat cggcccaaaa atggccttgg gggaccccc ccgggggaat ttcccccttt 240
 tccaaggggg caaaaaaaaa atccattttt tccccagaga aatttctttt ttt 293

<210> 5738
 <211> 601
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220073h12a1
 <400> 5738

ggaatttggc agaaccaaag gactctatat acttattgga taattgccct catgattggc 60
 ttttcttgcg ttgcaaggct ggggctagcc aattacatgg tagtttgtct tgggtgtggc 120
 cccgcattctt acaatgtgag catcgaagg tcatcacgga ggtgctggca caacagctgc 180
 ggggctcaaa gctgcttgcc caacaaccat agttcctttt ttcggcgatc aaccattttg 240
 ggggtgagaga gtacatgcta gaggagtggg tctccacct atcccagttg atgagttttc 300
 acttcccaag ttggttgatg caataaaaact tatgctggat cccaaggtaa aggaacgtgc 360
 aatcgaactt gcaaaggcca tggaaaatga ggatggagtg acaggagctg tgaaagcatt 420
 ttttaagcag cttcctcaaa aaaaatcaga gtctgatgca gatccgcaac caactggtn 480
 tttctctgta agaagatgtt ttggntgttc ctgattcaaa tgcagtntat taaaccccca 540
 ctcttttgta attaatagtg taaatcacia atagttactg catctatagg atgtgctgga 600
 c 601

<210> 5739
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220073h12d1
 <400> 5739

tttttttttt tttttttttt taaaatcaac agtaaattta catacaaact gaatctcaag 60

ttaaatagta caaatacaag catgcatgaa attatacaat cacatgacag ggtgacaagt 120
 ccagcacatt ctatagatgc agtaactatt tgtgatttac actattaatt accaaaaagt 180
 ggggtttaat aaactgcatt tgaatcagga acaacaaaaa cattttctta cagagaaaaa 240
 accagttggt tgcggatctg catcagactc tgattttttt tgaggaagct gcttaaaaaa 300
 tgctttcaca gctcctgtca ctccatcctc attttccatg gcctttgcaa gttcgattgc 360
 acgttccttt accttgggat ccagcataag ttttattgca tcaaccaact tgggaagtga 420
 aaactcatca actgggatag gtggaggacc aactcctnta gcatgtactc tattacccca 480
 aatggttgat cgccg 495

<210> 5740
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075a01a1
 <400> 5740

gtagatttag cagagtagag atagtgtgag gctagtacct ggagagaaaa gaggagacta 60
 taatacatgg ggaagcaggg tctaaacacg gaggagcaac aatctgaggc accgactgca 120
 tccaagtttc cgtagatctt tagggaagcc acagaggctt caacggaggc gctggtttta 180
 gcagagggtc ttctcggaga gtacctcacc atgcccgatt ccgattacag cttgcttaaa 240
 ctccctcgta ccctagaaga ccttcaactc ctacgagatg accttgagag ctatacaagt 300
 gactacactg cacaagtcta ggaggggtac tgcgtggttt atattttcat gcagactttc 360
 atgattccag agactgtggt catgtcattg cttgctggag cactc 405

<210> 5741
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075a01d1
 <400> 5741

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 caccggggac cttttttcat tccaaaataa ttttatttca taccocgggg gcaagactga 120

acaacaccta ggttttaagc gaaaaattga aaatatgggc cttgtgacc attccccaaa 180
gctgaaaaaa ggggattcca atttagcttc catccctttg agcaagcttt gccctcaaaa 240
tttttaaaag gttggggggg ggacaatcgg aatattccaa ggggggaagg acccctctcc 300
gggccaaatt tgggtggggg ggaattccgt cagtttgga aacccttca aagaaaatgc 360
atttaaagg gcttctttc tgctacaatt ggctgaaaaa gccacagtcc tctaaaaatg 420
ggttgctga atatttacct ttcataatta gctaacgaat tatttggtag caacggggct 480
gaaaattaat gaagcccgaa cttacat 507

<210> 5742
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075a02a1

<400> 5742

nggcatagta gtcacnnng natntggcga gncccaagcn agganncggc tcgagcaaatt 60
tccaatcctt caattcaata atttctctta aaagnagcct tctctgctga accctgaggt 120
gaccttcacc cttncaatcc acccaattgt aatgcctaatt aaccggcgcg cctccacctg 180
aacatcatgc tctgtctcat acctcagcat caacatgcac tccgaagtaa gcttgccggc 240
gaacatcaag gacgaggccc gccggcgccc cgggggggat aacgacttca cggtgagaga 300
cgtgccttg aacgccgggt tagactcggc ggaaacctac tcgctcgagg aaatc 355

<210> 5743
<211> 329
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075a02d1

<400> 5743

ccaaaaaata tccaaagcat atattggatt ttattcatta taaaatgggc ttcacaaccc 60
cttgcaagcg cagcaggttg caaaccaaaa ggcattcatg ggatatcatt caacgacaga 120
gacaaaagca gtgccatata actgtttaaa accaaagtaa ttaatatctc ataaacaatc 180
caaacgaaaa aaaaggggat tgacacttcg tttttcttat gggacaaaat gcgcggaaac 240

ttggcttccg ttgttttctt tgggcaattg cgaagggcat tttcttgcta taacaacgtt 300
 ttttattggc ttatatctt caaaaataa 329

<210> 5744
 <211> 343
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075a03d1

<400> 5744

ggggaaaaaa aaccttattt attggagtct ggtggggggg gccctcaaag gggctttgaa 60
 cattttttgt aattaccgga ccctcaaata tcaatggtaa aaggggggat aaataattga 120
 ataaaccggc caataatttt atctggaatg gcaaaccctg gccgaatcac ccctggactg 180
 ggaacagtta cttttccttg gcctacaggg gcttcccaaa ctggaacaat ttaaccaccc 240
 gttttttttt ttttgggaca attaacccca tgccgctttt ttaccggccc aattttgata 300
 ttctaccac tggaagccct ctaagggctc gggagggaaa ccc 343

<210> 5745
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075a04d1

<400> 5745

gataataagc aaacatttct ctattattat aaaatggttt acaaacgagt ttatctgaaa 60
 tttctcaaga tctaaaatac atagagcaca gttttttttt ttccaaacta aagaaaaaca 120
 gcaaactttt gaatcacttt cacgatgtgt agttgtactt gtacacaata ataatttcta 180
 acaacataaa taatgacgag tctttatgtg acaagagata tgcctttaga aattaatgca 240
 tcagctagaa cttgggttagc agcttgtgaa ggatggacac tgtcccaaaa cacatactgt 300
 gtggcattag aacaagttcc tgggtgattt ggattacaca acaaggatgt tgtctctaca 360
 gtcccggtac cacagcatcc tctgtttgcc tccacaaaac cagattttga aggggattga 420
 acaaggtcat agagaggctt gtaaagtgcg aaaaccgcaa tcttaagacc aggaagttgc 480
 ttttgaagac tcgttgacgc tgagttgagc ttcttgtaa atccttgagc atca 534

<210> 5746
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a05a1

<400> 5746

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actcgctga gttggccttg gattgcattc ttgagaggct tccccctct tcgctgagtc 120
gaatcgccgc cgtgtgccgc acctgtggg agaggagtga gagtgatcac cttagggaga 180
tgcacatgag gaagaagagg ggtagagtta ttggccctgc tgcttatagg gagaggaaat 240
ggcatgtagc ttccaaaagg aaagtagggg gtcttaaaca tggcaggcaa aagagggaga 300
tgagatttat gtctcttcat tggcctttcc aaaggattag accaaagggt gaagcaaatt 360
ataataaccc aaagctgagg agctctctgc ctgtagactc agacatgaac taggatcttg 420
ctctagagtc tggcaatttt tggttccctg ctcaagtcta ttaccgagag aatggncatg 480
ttggattcat gctatcttgc tatgatgct 509

<210> 5747
<211> 434
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075a05d1

<400> 5747

agcctctgat gctcgtttcc ctctattatt tcctttccac aacagaatac aatacacata 60
aacataaaaa taaacaaatt gttaatcaga gaccagaaaa agaaagaaat agaaaaaaag 120
aaccacgcaa aatgaaaaat aatgttgtaa ctctcagct ctccaccagtc tcttcgtctc 180
ttttgagtct tttatctcca tctacatgca cacatgcaca tgcagtactt aactaatagt 240
agtaatttct ctctatgagt atcaccacaa ccaattcacc tcaacacaca acagaaacac 300
aatggttgga tttgggttac gttgtctttg aatattctaa cccaccact ggtgcactgc 360
aacaccctcg tcccttaact tgccatacaa agccaagcac tcccaatagg cccttcggct 420

ggaattccct gagc

434

<210> 5748
<211> 714
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a06a1

<400> 5748

ggggnnnnnaa cgacgctgac tcacttnggt aannccccnn nnnnnnnntt ttnnnnnnnn 60
nnnnnccnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
ttttttntt tntttttttt tttttttttn tgggtggtttt tntttttttn tntttttntt 180
tttttnnttt tntttttttt tngtttggtt ctntttttta ttattaacag aaccatacaa 240
tattattgca gattaaagaa atggaggtgc agcggatgag ggagttattg aaactttggt 300
caacgttgca aattaaccgc gttgccctag tgggtggaaa ccacaccgcc gccagatttt 360
gcactcgta agtccccgtt tgcctcttcc cctctctttg tccctccac aatatctttt 420
ttcttcttct acctacacag aaaccaaaca agtcattact tataatataa tccacaatca 480
caaaacaaat ttctttctat tctctttcta attatccaac atgatgaaaa cacgttatcg 540
cttgccgctt ttggcattct tgcattcgc ttccttcata ttcataacga gatcatcctt 600
gcttgaaaaa atctcttcca ccatgcctga atattccttc aacaccgacc aggttctgtc 660
aattctattt cgcgaatgac caacaaccaa gagaaaatgt tttcctcgca acaa 714

<210> 5749
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a06d1

<400> 5749

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ttcagtaata gttcgttcaa tgattttaca atccgaatca atcaatcact tcatagattg 120
aatgaccctt gtagttagta tacatagtga taaagtaata tattatataa aaatagcata 180

ccaattcttc ttccttgctg gctgaataaa atccagggtt tccaactggc tctgacaaaa 240
tagagacagg gaaaacctga tgactgttga ggctgctcaa atcatggcta attgctaata 300
ctatatattgt tatatacact aataggctaa ttgctactgg taccaccacc tttgtagatg 360
tccttcagag ctccatcttc aactgatttg aatgcagaga tactgaattt gccgatgagt 420
cataactcca gagtgagttt tctggagtca tgtagtttt tgtcttcttc cctcccccaa 480
ggggttggtg gaatgcatca aactgccacg gntgctgata ttgttgtctg tttccgctct 540
gtgggatt 548

<210> 5750
<211> 685
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a07a1
<400> 5750

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tnnnantnnc cncnntnnn nnnnnnnnn nnnnnnnnn nnnnctnnn ttntttntnt 120
ttnttttttn nntttttctt tttttttttt ttntttttt ttntttnttt tttttttttt 180
ttttggggtg tttttttttt gtgtttggtt ttcttgtttt ttctttgggt ttgttttttt 240
ttttgttttc tctttttttc tctcttttct tttttgggaa caatgactat cttcccaccc 300
ttttcaaggc tgattaccct ccttatggga gggactttgt taaccaccaa cctactggga 360
ggttttgcaa tggcaaatta gctactgatt tctactgctga cacattgggt ttcaagacct 420
atgctccagc atatcttagc ccacatgcat cagggaaaaa cctccttatt ggagcaaact 480
ttgcttcagc tgcactggt tatgatgaaa atgctgctac tttgaatcac gcgattccgt 540
tgtccaaca gttgagttat ttcaaggaat accaaggcaa gcttgcccat gtagcttgcc 600
agtaaaaaag cagcctcatc ataaagattc gttgtatgtg ctcaagtgtg gaagcagtga 660
ctttgtgcaa aattattatg tcaat 685

<210> 5751
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075a07d1

<400> 5751

atggtaaaaa cagagaagag actttcatta ttttgaaccg gtttcactaa tgaaagggtc 60
tacaactttg atattttctgc cttccggaa gtgaagaacg ttaaagatct atacgtacac 120
attaattatg atatcaatat cataattgat attgagaaat attaaaaggc cataatatga 180
taggaataga gggggcacac ggcaagagga atttttttta aacttaaagc tagccattct 240
tgatcatcca ttccaaactc caatgattat tgacgttctt gagtgtccaa taacaccacc 300
caaagtgttg tcgccccaaa acatctaatt cagccttgac aaatctttga taatcctttt 360
tgggagcccc ttcaaccttc cactcagcag tccattcacc cacgaaagtg agaggaccat 420
ctacggttgt aatattatcc aactgtgatg aacggac 457

<210> 5752

<211> 675

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075a08a1

<400> 5752

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tagattatta taaccaacc aaanchaagn nncggctga gtcgaaacaa ttnnnnttnn 120
nnnnnncccn nnnnnnnntn ntnnnntnnnn tttttttttn tttttttttt tttttttttt 180
nttttttttt tttgggggtt gttgatattg tttgaatttt aaaacgggga aaaggagaag 240
agaatctttt ggacattttc cccctacaa aaagatctaa tgaagccttc tctgagcatt 300
tcaccaagga aggactggtg gccttggtg agtataatga aaagaaaaat tttgaggtga 360
aacttaagga aatgaagtct tctttaacag cacagttaac agacgaggct gatacatctg 420
aagtcattga gactgtgaag ctgcgagtta gagatgctaa attgccggac attgaggtgg 480
tgcggatctt gtgggatgtt ttaatggatg ctgttcagtg gtctggaaaa aatcagcaac 540
agaatgccaa tgcagccctt cgtcaggtaa aaacttgggc agaattgttg aatacatctt 600
gcaccactgg gaaacttgag ctggaactga tgtacaaagt acagatgcaa tgctatgagg 660

atgctaaaact gatga

675

<210> 5753
<211> 619
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a09a1

<400> 5753

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aacacaaaaa atatacaaaa acaaatgtaa atacnnnnn annnnccggg cgactcgaaa 120
caatanaatt tnnngcccn cennnnnnnn nnaaaaaann naanaaaaaa aaaaaaaann 180
nnaaaattaa aaaaaaaatt ttgtagtggt cggaacaag agaactttgt tcgaagagca 240
tcccccttct ccgccagtat ccaagaggct ccgctgttcc tctacccta ttcgcctctc 300
tctccccctc ctcatcgacc accttcgctc tctcttccct catatggatg accaggacct 360
cgagagagcg ctccaagaat gtggcaatga cctagatgct gccatcaaga gcctccacgg 420
cctctgtatg ggatctgctg atgataattc tcaaattgct ccacaacctg acctacctaa 480
tgtcgtccac acaggcacgt tggaagagaa tgacgatgct tctgctgctg gggatcagcc 540
cgcttacggc aattttcccg ccgatggagc agaatggatt gacttgtttg atagagagat 600
gacgtgtgct actagtgat 619

<210> 5754
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075a09d1

<400> 5754

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actaatatat acagatggat ctgtttatgc ttttataaaa aacacatggt acaaaatgtg 120
aattaaaagt taaaagaata atgaaatttt cagacatgca caagcctccc ctgtagaaac 180
ttctaacctc tatctacatt tactattctg gattcattgg attagcacca caaaatgtta 240
ccaagatcat ggtaaaccag caaatgaaca tagtattctg gtttcacaa tcaaatacgt 300

ttattctggt ccccgcaatc aaatccaatg gaaaggatgc atagtcctta cgtgtgacat 360
gaaccatgag actgatatgt gggcaaggcg aaaaccaccc aatcagattt ttttattagg 420
aaacaaatgg tgaccacagt ccagatgtga aatctatatt cactttcatt ttccttctac 480
a 481

<210> 5755
<211> 599
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075a10a1

<400> 5755
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nnnnnnnnnn cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nnnnnnnnnn nnnnnnnntn tntttnnnnn nnnnnnnntn nnnnnnnntn nnnnnntntt 180
nggtgggggt ttttttttgt tttntttntt ttttttttnn tttttttntt tgtttttttt 240
ttttcttggt gttttcagca acaaaacaaa ggggtgctgtg gaacttccac caaatgtctc 300
ggttccagca gtgttggtat ttggagattc gatcatggac actggcaaca acaacaacaa 360
cttgataaca tcagctcggt gcaacttctc accatatggc caagatttta tgggagggat 420
ccctactggc cgattttgca atggaaaggt tccatcagac attctagtgt aagaattagg 480
cataaaagag tttctacccg catacttgga tccaaatctg cagcttagtg aattagccca 540
ccgtgtgtgc tttgcatcgg gtggttccgg atacgatcct ttgacatcac anaccgcga 599

<210> 5756
<211> 488
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075a10d1

<400> 5756
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cattgaagca tgaatatgta cagaacaatg gaaccaaacg agaaaaacta cataacccaa 120

aagagctgaa gcctaaaagc agagtcagca ccatcatatt aagttgtgta ctcttaacca 180
 cttagaaaag gggttttaaaa aaaagttggg ctatgattaa atcagtcaag tttgtagct 240
 ccatgtggcc caattagctt cacttccaac acgaggcatc acttgatct ttgtctgaga 300
 gtcaacattg aagttagccc cacacataaa tccctcgctg tcaatcctag gcattgcttt 360
 catcttcttt gttggatgtt caatgctcat gagaccatgc tcactatgaa acatacacc 420
 attcggaat ggtgcaaagc atttagcaca gcttgctttt ataagctcca gattttcaga 480
 aataacta 488

<210> 5757
 <211> 604
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075a11a1
 <400> 5757

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 ncnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nntntttttt nntntntnt tntttttttt tttttttttg ggggggttgt tttttttttt 180
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 gatgcatctc aaaggtatca tgctcatcaa tataactaat gcaccgatg tgatcttaca 300
 aataagccac gagagaccga ggtgagggtt gtatgctctg aaccgagagc aatgattagt 360
 tcaatcacag agatttccac ttgcaagtat gcacttacag tgcaatgtcc gcagctatgc 420
 aagcacccat tatttcaaga ggagagacca gtatggcata ccatcgactg taatgtgctt 480
 ccaaaagatc acgtggatgc caaagtgaga cgacaaaacg aaaatacgga gattgttata 540
 gtgaaagact tcgaaaatag tgacttagag tcagaacaat gatgtcaata tacataatga 600
 gaat 604

<210> 5758
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075a11d1

<400> 5758

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attccgaata catcgattgt catctctcta aagcgtaaaa acagcctgtt ggcaaccaag 120
ctaccatgga tataggtatg caggcatata actaacaatt tctaagccaa ggacaaggga 180
ctgctcttta cagcaataat tgaaaaagca aatgaagcct ataaaggtag ggacattcat 240
tgcccatgtc acttggaagc ctcttcatct tttgccgcct taggatgtat tcctttcaac 300
ttaagaaatt gttacaccga tcagacccca tattacggaa aaatcactat ccacttatat 360
cagcgcggtt caccctcatt ggacagaaat gcagagtga ctttctcaga ccaactgtcc 420
agttaatccc agaaggattt gatctgtagg atacccataa ctct 464

<210> 5759

<211> 535

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075a12a1

<400> 5759

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nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt ttttttnntt tttntttntt 120
tttttttttg ggggtttttt tttttttttt tttttttttt ntnttttttn tgaaaaataa 180
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ctacaaaact cgatatgata atgtcaatct aattacaatt cgagaaaata cggaaggcga 360
gtacagtgga cttgaacatc acgttgtgag atgtgttgta aaaagtctca aaatcattac 420
acgtcaatca agtttaacgg tagctgagta tgcttttcac tatgccaagg ctcatgtaag 480
agagagggtt tctgccatac acaaagccaa tcttatgcac aagactgatt gactt 535

<210> 5760

<211> 350

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075a12d1

<400> 5760

ggaacaaatg aaacatcatc ggggggttttt ttttatttag cactatatta ttgacaaaaa 60
atactaaaac ggcctaccaa ggggttatcaa tcaatgtgca ttgtgaaagg gtgtcctctc 120
aatgccataa aactgcactg ggcaacgaat atttgaatcc ctgcccattc cttgtctttg 180
gttggaaaat gtcacacaaa catgggtgag tttgccttta agctgaggga atccccattct 240
ttccgattaa ttgggggaaat agatagaaaa ttgactgaaa ttcaaaaatc ataagcaaga 300
atctcttgct gactccaacc aaaatttaaa gatgatcaat gattgctttt 350

<210> 5761

<211> 341

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075b01d1

<400> 5761

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tttttaagtt tcaagatccc ccataatcta aaaaggggtt tttgggtttt tcttttcttt 120
tttatggaaa aatttttgtt taaaaataga gatgaatttt tgaccatttg ctatgggggg 180
ggtctaattt ccacagggtc aggtttgaca aatgaaaatt cccctccct cctactgggg 240
ggttctcccc cactatcttg gctatgttcc gcttgggggg gggcgccatg atcaactttt 300
acaatgaaac ttgttggttg cgacccaac ggaacaact t 341

<210> 5762

<211> 529

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075b02d1

<400> 5762

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acagagtaca gaaaaacata gataacgctg gtaagtaatg aacatgccaa gaaatttatg 120
gcgattatgg aacaaatttt tgaaatggaa accatccagg acggttgata caaaaattgg 180

ttgagcatct aacaatctga caatgtttca attaaggcaa gctccaacac atgcaagcct 240
cacattattg aaggcaaaaa gtatatcaca cttcagcagg aatccaggtc acggcaggga 300
ggaggcttgg gctcacttaa caaagtagtg ttccctcctt caggtcact cttaattcgg 360
cggggatttt ggggtgccgtg cggtggcttc tcaccctttc tcagcttttc tactatctca 420
actactttct ctgggggttac atcttcaaag taattataag tatatccctc tgatccattt 480
gaataatcag ccaactgtaat cataggagca ttcacacagc atcccatgc 529

<210> 5763
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075b03d1

<400> 5763

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cgaaaagaac taccatacac agagcacgag gaaaaaaaaa acaacacaga caaagtaaca 120
taacagtgca aacttctaata caataatctt ctcttctatc accatcttct tcagttgcct 180
ctgcaccgac ttctcataa tctttctcca gggcagcaag atcttcacga gcctcagaga 240
actctccctc ttccataccc tcaccaacat accaatgaac aaaagccctc ttggcataca 300
tgagggtcaaa tttgtgggtg atgcgagaga agacctcaac accactgggtg gaattggaga 360
tcatgcacac agccctctga accttggtgaa gatcaccgcc aggaacaaca gttggaggct 420
ggtaattgat tccacacttg aaaccagtgg ggcaccagtc aacaaattga atagtgcgct 480
tg 482

<210> 5764
<211> 307
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075b04d1

<400> 5764

tgtcgcgtgc gtcgattcng tggggcgctt tgtattttat tgccctgggg agctagccga 60
gctagtctcc cgccgccctt gtgtgatccc tatgttttgg gtttttcttc cctttacatc 120

tattagtggg ctctgtgtct cttgttttta gggggggggc cccctccaaa aaaaaaaaaa 180
 taattttctt gaggagggt ccccttttta tctctacca aaaggggggt agccccccct 240
 ttccatccca taatcccctt tttccggggg gggaaaacct ttgggccaac ataacctcaa 300
 tctttttt 307

<210> 5765
 <211> 469
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075b05d1
 <400> 5765

atcagaatca ttttggacca actttcctaa ttgctttaaa gcatattatt tctgcaaact 60
 tgtacatatt cttattaaga cttgaatttt cataagaaca tcaatgcctc tcatcccttt 120
 tggatgctat tcctttaaaa ggaaaatcat gtagttacat tacatctaac aaataatgaa 180
 tcaaatttat ttttttcaat ttaagctttc agctgtctat cttagtagtc cttcagtgtg 240
 aggtatatct gtgtcaggaa gccaaagtatt tccaatgta aaattaagga ctgtgaagtt 300
 ccaagcttga gtagcattca acagagagta accaggccat gttactctat tgctagtgtt 360
 agaaccaggt ccatagttgt tgaattcacc ataaaagaga gtgtctaate caactgttcc 420
 attccactct agccaccag caggttgaat tacatttcca tgtatgact 469

<210> 5766
 <211> 298
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075b06d1
 <400> 5766

gttcttggaa catgagctca gattttctga caggcgagga aagggaaatc tacatgcaat 60
 gcctcgccca cctggatagt tcgccatcct tcagtgtctc cttccttttag gtcactgatg 120
 cacattgagg ctcccttagc aatctcaaaa gatggcccg ggctcaagcc aagcaaagt 180
 actaaatcct tgctcggcca cggggaggga actacatgag cctccatctt ttggattgat 240
 catgaacaag ttcttttcac aatcatatct ttcaagtgtg tggatatagaa tgggttcc 298

<210> 5767
<211> 647
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075b07a1

<400> 5767

gtnaacctgc ctcatctctg aaaccccatn nnnnnntnt tnnnnnnann nnnnccnnt 60
nnnnnnnnnn nnnntnnnn nntnnnnnnn nntnnnnnnn nnnnnnnnnn nnnntttttt 120
ttttcnnttt nntnnnnntt tttttctttt tntttgtggg cngttttttt ttttcttnt 180
tttctcttct cttccccctt cttctttttt ctttcccc tagtgctgat cagctaattg 240
actttgatgc tgccaccctc atttogaaca tctgcatgat gccagaacta tatgatatta 300
gtgctgcgcg tttgcaatgg atgctattgc cagacgatgc tttgaaattg acctcagtcg 360
tgtgttcaaa cgttcattct ctactttgg aactgtcaga tgagcttctt ccgctatttc 420
tctcatgggt tgtaaattg gagaatatac cgctagaacg gagtaaattg acagtcattc 480
ccgaatgcat caaaaaatgc cgctttttat ctatccttat tttgagtggg tgagatcgtc 540
ttcaagaaat tagagggatt cctccagact tggaaagatt ctccgcaaca caatccccag 600
acttgacttc ctcaaacata aacatgttgc tgaatcacga actgcat 647

<210> 5768
<211> 107
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075b07d1

<400> 5768

cggcttctaa ttttgtcttn gtaggcacca ttttaatttt ttgacgagct gactaaccga 60
gctgccggcc gccgcccttt ttttttttaa tcgttttcaa tttttga 107

<210> 5769
<211> 625
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075b08a1

<400> 5769

gananccgcg ctgtgcttcg ataccaatat tanntttatg cacacntccc ntannntnnn 60
aatattnttt nagtttttat ttctttccaa tttattaatt tttttnttat aanaaacttt 120
ctaaccfaat gagggagata aaagtgcaga agctcgccct caatatctct gttggcgaga 180
gtggagatcg tctcaccaga gcttccaagg tgttgaaca acttagtggc caaaccccag 240
tgttttccaa agcaaggtac actgttcgtt cctttgggat tagaagaaat gagaagattg 300
catgctatgt cactgtcaga ggtgacaagg caatgcaact tttggagagt ggtttgaagg 360
tgaaggaata tgaacttctc agaaggaact tcagtatac tggttgcttc ggctttggta 420
ttcaggagca tattgatttg ggaatcaagt atgaccttc aactggtatt tatggaatgg 480
atctctttgt tggtctggag cgacctggct atcgtgttg acgtcgccga agatgcaagt 540
cccgtgttgg aattcagcac cgagtcacaa aggaggatgc tatgaagtgg ttccagggtga 600
aggacgaggg agtgatcctt aacaa 625

<210> 5770

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220075b08d1

<400> 5770

ataacagact tttatctttt aacaacaggt cgggaccca ggtacatgt atttatttat 60
tgctacaaca ggaaaccctt tccctgagca tgcacaagga agcttctata ctctttttgc 120
ataaccccag ctgccctggg cctcaaattg tgggtatatt aaggatcaag tttcagcctc 180
cccatttcag cgtattcttt taagaccttt ttctttaccc ttggatgcag gcttgtccga 240
acctgttttt attggcctct accgaacatt tttttgtaag gttaaaaccc tgttggacga 300
gttttttagc tttcctgggc caagacccat ggatagccat tccctccacc ttgatggat 360
tttttgacaa atagcatata tttctgcacc cttacaatt ataactgctt ttcttgcttt 420
tcaggtcttc atctttgtac cttgtgtttt tgtccgttta cctttatgct gactatttta 480

<210> 5771
 <211> 543
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075b09a1

 <400> 5771

cgcgtcgtct cctgaancca ataaaaanatt taanagaaaa ancncaaaaan tnnanaaaat 60
 tattttatat tattctatcc aatttctatt ttttttatcc attttacaca tctttattaa 120
 cccggggggac ttttttctta aataaaccaa aaacccttgt gctattctca ttctctggaa 180
 ttattatggc acataagaga ttcattcattg aggtcgagag agcgaatgag gccactgatg 240
 gaaggccttc cagaggacct gtctatcgta gcctattcgc caaggatgga ttccctgctc 300
 ccattcaagg tctagaatgt tgctgggacc tttttcgatt gtctggtgag aaatatccat 360
 caaatccaat gcttggtcga caggaaattg aggatgggaa gccaggcaag tacaagtggc 420
 taacatacaa agaagtatat gaccaggtga tgaacgatgg gaattctatc cgcagctgtg 480
 gttatggaaa aggtgtaaaa agtgggtattt atggcgccaa ttctgcagaa tggattatga 540
 gca 543

<210> 5772
 <211> 475
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220075b09d1

 <400> 5772

atggagggaa aatcggtaaa tttaattata tcataaccct ccaattgaca attatacagg 60
 ctcttgacc actttcagct caaggcttat tgatgatcca tctatatact tttttataga 120
 ttaaaaagac tgaacatgaa ccgttttagta tttgaataaa gataatgctt caatataaag 180
 aggattgcct ctttaattatg ttgcaatgtc cagttaattg gtccattcct aaagagactg 240
 tatgctatat tgaaataaaa tcttcaattc ttgtgtagta tactagtagt aaagggccat 300
 ttatttagta attttactta taagtgaatt cactatagct ttacaatttt cttgcatgcc 360

tttgatagaa agattttatc cttctcatac cctctccaag agcagatgga tcagcagcga 420
aagtaatacg aagccaatct tttaggccta ctgcagttcc tggaagaatg atcac 475

<210> 5773
<211> 615
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075b10a1

<400> 5773

gaanaaactg catcatactt tngatgcccn ttgnnnnntt nttnnnnnna nannncncnn 60
nnnnnnnnnn nnnnnnnnnt nnnnnnnnnn nnnntnnnnn nnnnnntttt tttttntn 120
ntttntnnn ttttttttg gtggtttttt ttttttttn ttcctttttt tctttttttt 180
ttttttttt ttttatgatg acacataaac ccggcgaccg agaaagaaga aaccgacttc 240
aagggtcccg aaacgattac gctttgcgtt aacaactgcg gcgtcaccgg aaaccctgct 300
acgaataaca tgtgtcagaa gtgcttcacc gccttcacca cctctaccgc caccacgtcc 360
ggcgccggag gtgccggaat agcttctccg gctaccagat ccggcatctc cgcgcggtcca 420
ctgaagagat cttttccga ggagccctcg ccgcccggcg atcctccgtc ttcagaccag 480
acgaccccg cggaggcgaa gcgctggtg aaccgctgct ccggctgcag gaggaaggtc 540
ggactcaccg gatttcggtg ccgatgcggc gagctcttct gcgccgagca ccggtactcc 600
gaccgccacg actgc 615

<210> 5774
<211> 351
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075b10d1

<400> 5774

aataataaca atctcattat ttccatggca cattaacatc aggtcaagaa agtaaaaagt 60
gtgtatgtag taatttaata tggtagacag acctacacga caagtttcgt gagctgcaga 120
attagaaaat aagcaatata gacaatgaac aaggaaactt agaaatatat gcaaaaactag 180

agattttctt tgtgtggttg catgggaata tcaggcatca agttgaagcc tccccattca 240
 agcgtaatct cttgggacct ttttcttcac cttggatgca ggctgttccg atcctgtttt 300
 cattggcctc taccgaacat cttttgtaag gtttaaaccg tgttcgacga g 351

<210> 5775
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075b11a1
 <400> 5775

ggggngactc cattatctct gaancccaat aaanatttn nggggaaata cccaanaaga 60
 acttanttca nntatgtttc attttatcat ttcacatact cctcttttta cctccccatt 120
 tcaacacatc taactcgggg gtttttttaa attcataaac catattatat caataccacc 180
 cctccttctc tacatgatga cacataaacc cccctgtcac tttgaatcgc ttgccacacc 240
 ccctttgttg atttagaaat gctagatcta ttattcgcat aacacgtccg atccaaaacc 300
 tggttacaca ataggaaaaa aaaccaccga cttcgttccc ataaacccta gtgctatttc 360
 cctcccaatt tcttaacact gattgtaatt tgcaaattgt acagctagaa ttttgtttct 420
 cttcttcggt taattatctg tacttttttt cgcatactct ttattttaca attctctttg 480
 ctggccttgc aaagtctgta c 501

<210> 5776
 <211> 475
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075b11d1
 <400> 5776

aacaaagcct tattcccctt cttaacatta tcacaactct gttgctagaa aaaagagagc 60
 aattcgtttg tggactaatg ggtatccac aagcctcaca ataatacaga tatagtgaat 120
 tcccacacat agatgtaaat tccctttcta aagggaaaaa aaataggggg aatcaccaac 180
 ttctatgtga tctactatct attattattt ttatatacta tgatttggct caattcttct 240
 ggatcctact cctcaaaaaa gttgagctct accctccaaa gatgctacac tatttacaga 300

agcagatttg gcatctcctt tgcagttcat agaaccaaga actcgcttat tatcacgata 360
atgaccaaag ttgtttttga ccagagagac gatttacaag tctgtctaga gcttccttca 420
tcaccagtgt tgacaaactt cccttgcttc tgtgacgctc atccatattc tttga 475

<210> 5777
<211> 650
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075b12a1
<400> 5777

cctaaaaaga caaatatata tagtaataat ataaataagc gagccaaaaa ccaacaaaaa 60
atatataata caaaaaacta tcaataaaat acctacaaaa ttntaatagn nnnntcgcn 120
gaaggtaaga ntnccaaaan nnnttnnnnn nnnnnccnnn nnnnnnnnnn aaaaaaaana 180
anaaaaaaaaa aaanaaaana aaaattatta aaaaaaaaaa aattaaaaaa aantataagg 240
ggtaaaaaaa taccggcggg gatacacctc cgagccggag ccggagcgca aggtggccga 300
tataggtgcc ggcgggcgga tggggaacc cctctcctt ctcatgaagc tcaacccct 360
cgtgtccagc ctctcctct acgatatagc cggaactacc ggtgtcgccg ccgatgtcag 420
ccacatcaac accggatctg aggtagtggg gtaccaaggt gacgaagagc tcggaaaagc 480
tttggagggt gcaaatgatg atataattcc tgctggtgtg ccagaaaagc ctggaatgac 540
tcgtgatgat ctttttaaca tcaatgctgg catagataag aactgtgta ctgctattgc 600
taagtactgc cctcatgccc ttgttaacat gataagcaat cctgtgaact 650

<210> 5778
<211> 511
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220075b12d1
<400> 5778

gaagggtaca acaccctgca attacattac gtgaaaccat acacagttaa aaggggaccat 60
tattaatgga atggccaaaa cctaaacccg gttataagat cggtgaatct ctttagcaac 120

aaaaagctct cagacttaaa ttattaaatc atggcggtata cctactctaa ataaaacaac 180
 aaagtcgcca caccactgcc ggcaacaata caacaatggg tctgagattg caaaatttga 240
 tttggttctt gaaggaataa cattaacatt agcctaccag acacgtatgt gataacatgt 300
 tcaattactg gttggcaaat ttgattccct tctcaattga tgatttgagt tcaggcttaa 360
 ggctttcgag gccttggtgc tcaaaatctg agagaggtcc taagcccaaa acttctcca 420
 ctccattctt cccaagcctc accttggaag caaagtaggg aagttcagta acagtggatt 480
 gcacgaatga gcactccaca acatctggga c 511

<210> 5779
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c01a1

<400> 5779

gaggagcagt tatttttcaa agagacctct actgtctcct tcttctcct ttcaaattta 60
 gatttttagtc ccaactaattt gtcacagtct gcatttttta aaccactctc atctaaattg 120
 aggaggttca gttactttct ctaccatgat cttccttcac ttcttttctc attaccacta 180
 ctctttatat ccataaccag gagctttttc atcaagttta ataactcgta ccttttattt 240
 tttctccctt tggcttgcaa aacctgcttc tactctaaag cttatatctt tacctccaat 300
 gaattcagta tgagccatca agttatagat atgtttgaca tatttttcgg tttggccaaa 360
 gcttctaat gtaagatggc gatcaaacga gcccg 395

<210> 5780
 <211> 414
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c01d1

<400> 5780

aaaacaaaaa aaaatgagaa atgataattg atcctcaata aattgaatac aactctgaat 60
 tgaaaatcat gatgcccttc ctatgttact attgtaaaga aaaacactat tttggggcaa 120
 taaataaagt cacaaaaaac aggacaaata tttcaattga tatgtctcca ggggaatttg 180

gcaaacctac tatcttaaag accttcggga aatcatttga caaaaactcc tgaacatgca 240
 atacttaaga agtaaaccatc ttggttaagca tcagccagac accaacttta aaaaaatgca 300
 gatggaattg agaagtatga gaggaactct gaggtactga gttgcataaa tgaggcctat 360
 aagctggcct ttgaacgact tagtccttcc acctgagaaa tcttgggaagc ccca 414

<210> 5781
 <211> 156
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220075c02a1
 <400> 5781

gaccacctat cattgaggac acccctatat tttgaatgag ggctatgatg cactctctct 60
 gctgcagcat ttttccatca acaacctgag ggatcccttc attgaacgct agtatgggtg 120
 ccactctgag cacattgagg ttggtgtgat ggactg 156

<210> 5782
 <211> 394
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220075c02d1
 <400> 5782

cgtaaagggt tgtattcata ttttcaactc aaaattttct acatgaataa ggttatcaaa 60
 catctcttaa caaaattgct aaagtagcag aaattataag gagtaacatc ggcaggcatc 120
 agctgatcaa cctgagataa gaaacactct agtaaaagaa caaggtcctt gatatttcaag 180
 gcactccttt tttcttttta cggggtaata ttgttttgaa ggtttctact aacagaaatt 240
 agactctccg gaatttaaac aagtattcat cgcaggcaaa aacaaaagggt taaagtttat 300
 ccccttaagt tttatgggtc ctttaacttc tctttcccg ccttgatggg agatcaaggc 360
 tgagctttcc agattgatga aatgtcagcc acag 394

<210> 5783
 <211> 412
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075c03d1

<400> 5783

caaaccaaaa ccataaat tgcattaaat ttcgaagaaa ttaacatgat atccatctca 60
atgcatatta atgaacatat catgtgagag ccttaaata cacaactaa cagaaatctt 120
aaatataaaa tggctttaac tcaataaatt ggcacaccat actaattaac taattaagag 180
tactactact taatctgtat ttcacatcatg tctaggcttc attcttcctt cgttgccat 240
cttgaagagc tgggcttctg cttctgctgc cttgttgagg ttgagtgagg ccacaaacct 300
gtccctgact tgggttggtg tgtaaggga cttgttgctc accatggagt tgaggaagga 360
agctgtgcct tctctgtaga gtgctcctag cccatcagtt cttgtgttg aa 412

<210> 5784

<211> 366

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c04a1

<400> 5784

tcacaattag ctttcgttta gttgctgctg ttgtttctgt tccttctcta gttccttaaa 60
ctctttgttt ccaacatcct tagaaaagg aaaaattcaa aaaccagaac ataaaccggc 120
ggctgaggtt tccaagaat atgctgcggc gttgggctct cgcaccgga gggagccgca 180
acgctataga aatagtcgtc gccaaaggaga gggatgcata ccgntcagac ttacgatagg 240
agtgtagtct tccttgatg tcttctgtga agactcggaa gacctgggta ttagtgccca 300
gaaaggtaaa gggatgctct ttccttaggg aggctctgta tttgacgatt caaaatagga 360
agccgc 366

<210> 5785

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075c04d1

<400> 5785

tttcgtcctt tttttttttt gttttttcgt ttttttctct ccctaaaaag caaaaagggc 60

ttagtggtttt tatataaaaa gcgaaatgct aacaccgcca ctacaacaaa attttaattc 120
 tttttttacc tcaattcctt acccccccaa ttgctaagtt ttaataaaact gcacctagac 180
 aataccattc aaagaagcct cagatgtggt catactcggt aataataata ccctctaaaa 240
 aattaacca agcattgggtc taaaaagcta caactacacc cacattattc attaataacg 300
 aaggggtctc cacctactta ttaaatatcc cttgttaaaa ggggctgggt ttgcggccca 360
 caaagggatg tgcagaaacc tttcccttc ttgggggcta ggtggcatcc catagaacca 420
 ttctggcag 429

<210> 5786
 <211> 346
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075c05a1

<400> 5786
 tctcgtcgaa cagggtttaa accttacaaa tgaagttcgg nagagagcca atagaaaaca 60
 ggatcggaac tgctgcac caaagagaag aaaaagggtcc caagagatta cgcttgaaag 120
 gggaggcttc aactagatgc ctgatattcc catgcaacca cacaatgaaa atctgtagct 180
 gtgcatatta tttctaagtt gtccttaggt catgagactg tattgcttat tttctaattc 240
 tgcatgtcac gaaactagag gaggaagtct gaggaccata ttaaattact acatacacac 300
 tttgtacttt cttgacctga tgttaaagag ccatggaaag taatga 346

<210> 5787
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075c05d1

<400> 5787
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 aacgaccata gttgggtcgg tgaacacaag cgttattcag atagattctt cggcctcttt 120
 ttttaggaac gataatctgt gtattgctct cggtgtcaaa aaaaaaccaa agaccctctc 180

tgtgtctctc tcagggctgt tatctgctac tttttttttt cttctctccc ccatagggtc 240
 tgaaaagaaa aaatgcgaaa cccgtgacct gaacccgatc gcgcgaaagg cccaccgtga 300
 tcgacgtctt tttgagattc cgcccacacg gggtttttcc tgggggggtg agccttatca 360
 gactttgacg aggttcggg 379

<210> 5788
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075c06a1
 <400> 5788

gtttaaaccg ctgtgcttga accnttnnnn ttntnngnan nccccnnnnn nnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn cnnttttttt ttntntntn nttttntttt 120
 ntttttgggg ggtttttttt tttttttttt ttntntttt tttttntat ntccttgttc 180
 aacccttttg gaccaagggg gagaagcatt gcatgactca aattacccaa aagttaatt 240
 tgtgtcagct ggaatggatc ttctgcacga ttgccaattg gcatatgcaa aaggatttca 300
 ggattctgga caacaggcca agcttctatt tctcaaggaa tccactatag gctgttactt 360
 cctaccaaac aatgaccatt tctattgcct catgacagaa atcaacaact ttgtcaattc 420
 tgattctgac tgtaaatata ctattactac taaaacgact acgactgaaa ctactactta 480
 accttacctt accttacctt acctacagga ggcatacata actaaagctt gacatttaac 540
 ttgggttatc tatttctata ccctcac 568

<210> 5789
 <211> 301
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075c06d1
 <400> 5789

ggtaaacaac tttaattttt catttcaaga ttatttttag gggaatggga gcacatgact 60
 tgataaacia aaagcaaatt ttctaaataa aatatgcgtt tctaaccoca catcggcatg 120
 agaagcagag acccaccttt tctctcgtga ggctatgttt tctagaaaca caagtctcca 180

ctctaataatc tccatctacg cccaagacct aagaatatc atgattcctt tatcaccocg 240
gccttatatg atgtgattta cacctcacca attattattc tatcccataa actggggaca 300
c 301

<210> 5790
<211> 693
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075c07a1

<400> 5790

tgggggnaac tgcctctcac ttttgaaanc cnnnnnnnnn nnnntntnn nnnnnnnnn 60
nnncnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn 120
nnnnnnnttt tttntnttn nntntntnt nntntnttn tntttttggg gtgtttttt 180
tttttttttt tttttttttt tttttttttt tttttctttt ttgtttgcaa ccctttttga 240
ccaaggggga gaagcattgc aggactcaaa ttccccaaaa gttaatttg tgtggctggt 300
ttggatcttc tgcaggattg gcaattggca tatgcaaaag gtcttcagga ttctggacaa 360
caggtaagc ttctttttct caaggaagcc actattggct tttacttctt accaaacaat 420
gaccatttct attgcctcat gacagaaatc aacaactttg tcaattctga ttctgactgt 480
taatatacta ttagtactaa aacgactacg actgcaacta ctacttaacc ttaccttacc 540
ttaccttacc tacaggaggc atacataact aaagcttgac attttacttg gggtatcttt 600
tttttttccc ctacttttg natcttgtct tttctttnga ataaagtgtg taattataag 660
attgtgtacc attacttggt attgtcataa cat 693

<210> 5791
<211> 315
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075c07d1

<400> 5791

aaaaacttga attatcgtgt atacttaaag agaataactt gccataaaa catacacata 60

tgatgactaa agacaagata tgtcatttaa caagacagaa taattcctac aggtaaagtg 120
cataacaatt gagtatacca tctaataatg aaaataacgc aaataacata atgcttaaag 180
caacgttcat atcagaaggg aaaaatagtt tgaatcccat ccaacaaaaa tcatgcgatt 240
aaaatccaat taaaaaagca taaagtaaaa taagttttta aaacaggtat ctggaggaaa 300
gcaactacat ttagt 315

<210> 5792
<211> 678
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075c08a1

<400> 5792

actaacacaa taaaagaata ataaaaaacg atactatgta agagaaaaga atagaaagac 60
ataacaaaac agaaaaactg agagaagata caaaaatata aaaagaaaag ctcttaaata 120
aaaaaannaa gggcgaatgg tagatnncan aaannanntt tnnnggacnc nnnccnnann 180
nnnnngaaan annnnnnaga gaaaaagang ggaaaaaat aggatttaga atggggaaaa 240
gaaaatggta aataggtagg aagtgggtgt gtttttgtgt tagtgctatg ggaaggcaac 300
cctgctgtga caaacttggg gtgaagaagg gtccatggac tgctgaggaa gacaagaagc 360
tcatcaactt cattctcacc aatggacaat gctgttgccg cgccgtgcc aagctcgctg 420
gcctcaagcg ctgtggcaag agttgtcgcc ttcgtaggac gaattatctt cgtccagact 480
tgaagagagg gctactcaca gaggcagagg agcaacttgt tattgatcta catgcccgtc 540
ttggcaacag gtggaccaag attgctgccg ggttaccgag aagaacagac aatgagatta 600
aaaatcattg gaacacccat atcaagaaaa aactccttaa gataggtatt gatcccgtac 660
tcatgagcct atcaaaaa 678

<210> 5793
<211> 332
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075c08d1

<400> 5793

aaagggggg gccccccca aaaaaaaag aataatccct tcaaaaagg atcccacttt 60
aatcctcagc aaaaagggg taaccccccc ttttcctac catgatcccc attctccggg 120
ggggaaaacc ccttgGCCaa ataaaagcta aatctttttt ccctcaataa aaaaaacccg 180
aattaatccc ccgtaaatTT tggaaaaaaa atgggctgaa tgaaacccaa agtattgttc 240
ccccggtttt caattaaaag ggtccccctt catttgcatt ccggctaggg gggggaagac 300
ccggaaagcc caccacccc cccccaaaa cc 332

<210> 5794
<211> 681
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075c09a1
<400> 5794

acagagacaa aaatagataa caataaaaat tacacgataa aataactaaac caaagagtaa 60
gataggaaga agaacatatc tctcatcata cataaaataa aaacnggggn nccgggCGaa 120
agtcagaanc caaananann tttnggncn cnnccnnnn nnnnnnnnnn nnnnnnnnnn 180
nnnnnnnnan nnnnnnnnt tttntnnn taaaaacaaa caatacttat tcggggaaga 240
ccaaagtTgg tggTgcccc acattacata gcggagcaag gcatggaaag cctctcattt 300
caattgtatc ttcacttggT aaacaagcat tgggcttGga gaaagaaccc cttccagaga 360
agcatgatgt cgacctagg ccataaccg taaaagaaaa taaggaccaa agctgctcaa 420
aagtatttac cattctccaa gaggcaccct gttcatctgt atcttccgcc aacaagaatt 480
caacatcaat attagtgcCG ctgagaaatt catgtgcctt aagggaagttt ataccttcgg 540
tgaaagatgt gataactcaa gatgaaacca acgactcttt tggtactgat gatcttgaaa 600
atcagaagtt ggagatagat gatggcaagc aactcaaaa gtctaattggc acttgtaaag 660
tctctaagtc ggagaattct g 681

<210> 5795
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075c09d1

<400> 5795

catgctgaca ttttttaatt ccttattcaa tgtaataata tacgagtaac ctcagctcta 60
tcaacaatca atgacatttt tgtctttatt tgttttcaat caatggaaac aattttcata 120
ttttcatttt acttctccaa aataacaagt acctaggaaa gcaagacatg aaatcattca 180
tattcatatt tctgataaat cactcaatta tttgctactg cacaccagtt acaagaaaca 240
attatctctc ggtatcattc tgcagatcag caacaccatt caacttccgt cgggtaaatt 300
ttgtctgtt gaaaaaatcc accaatcaaa ttgcagctat aagtttggtt gcttgaatat 360
ctaaactcca taatttacta agacagtaac caagcacccc agttttgatt actcaaactc 420
ttcaagtggg ttggcaaata gtaacagtct gaacaatgct cagggaatat tctttctctg 480
agaggctcgc acgcttctgg tgaaaccaag tcagagtatc cttttacgta agagcagttc 540
catggcaatt ttttgctcac at 562

<210> 5796

<211> 590

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c10a1

<400> 5796

aggaaaaact gctgcatct ctgtanccca cttnnnnnttn tnnnnngnnnn nncnnnnnnn 60
nnnnnnnnnn ntnnnnnnnn nnnnnnnnnn nnnnnnnnnn ntnnnnnttt tttntttttt 120
nntttttntt ttnntttttt ttttgggggg ttttttttn tcttttttn cccttggtgtt 180
ttttcttttt gtttttttag ttttgtattt tgtttaggtg atcctttgac aaccacaca 240
tttctacac actgagacca caggcctttt ggatgcttca caccgtgact tgagaagagc 300
cagggctgca gcaactgaaca ttgtcccaac cagcactgga gctgccaagg ctgtgtctct 360
agtgttgcca cagctgaagg gcaagcttaa tggaatagcg ctccgtgtgc ctacacccaa 420
tgtttcagtt gttgaccttg ttgtgaatgt tcagaagaag ggtcttactg ctgaagatgt 480
caatgcagca ttcagacagg catctgatgg tccacttgaa agtgtgttgg acgtgtgtga 540
tgtttcactt gtgtctatcg acttccgctg ctttgatgtt tcctctacta 590

<210> 5797
 <211> 385
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220075c10d1

 <400> 5797

ccatccgaat ccatttttatt tatatataaa aattatatcc aaaggaaata aaaggatttt 60
 aaaagatcct attttttaaaa atttgaaggg gaaattataa agttttttaa ggattaacca 120
 atttttttct ccccggcccg ggagaaaaaa gagtcccatc tgttcttgaa aagcttcctt 180
 aaaaaggact tttgtttccc cagggaatgt tttggtaaaa aaaataattt ttttgaatgg 240
 ggggttattc gggtttaagt aagcccgtag ctcaacaaga aatttcctta cctggccaat 300
 ttttaaggaa tcaagaaacc ccttcgttcc agtaaaaaaa gttattatct ggtcttcccc 360
 ggaaaaagga gctgattggg attgt 385

<210> 5798
 <211> 599
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220075c11a1

 <400> 5798

agaaaaccta ctttatcact gaaaaccctt nnnnnnttna ctgtgaancc cccnnnnntt 60
 ntnntnttct cttccctctt ctctctctt cttctcccc tttttttant ctttctactt 120
 cttccttct ctttctcct tgtgggtcta tatctttatc catcattatt tctccaccac 180
 tatctctcct aatcaaatca actcaattta ccacctccaa aactccaat tcattccatt 240
 tataaccccc ctccccgaat ccataattca catgcaacca tttatattgt tctacacaat 300
 acagaatatg acgagtcctc tgcagtaatt gctcaaaatc caccatagag tgcacatccc 360
 catatagagg attttaaaata agaccatgta cctgtggatg aaattccaag gttcgagccc 420
 aagtattcag atggttctcc acagcattat aatgctcgaa agaaagagat tccaagaaga 480
 agaatgccat ttataaattc ctgtgctgct aacatgccta atggagatga aaaattgttc 540

tttccacatg aaaaaccaat tgagtactct ggctcaaagg gccaaaatcc taagaacta 599

<210> 5799

<211> 506

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075c11d1

<400> 5799

aaaatccaaa agatttgttt aaacaaacat aattggtgaa aatattagtc caatacaacc 60

atctaaatgt atttagcact ttatttaaata cattacatca ttagaagggg gtcactatca 120

tccatattat tcatctgaag tccatcaacg ttggttacag tgggcttctg cactcgtctt 180

gggctataag agaacgcgat cttgtttgtc ccagggcagc agaccctcgt gggacgaatg 240

gcgccattca aatgacaata tcagtctgaa ctgggtacca actatcacc aaacgattaa 300

tgccttgccc ttgcaggcgc agcaaaccat gctggttata atggacctcc ttcacattaa 360

gaaacactcc aggttgggaa tccattatgt ggatattgca gtgatatgcc gcagatgccg 420

gaattagctc ccttagctca aacatttcgg ctggagccat aaggagtggc tgcttattag 480

ctgaaccaac caatggctct gggata 506

<210> 5800

<211> 582

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075c12a1

<400> 5800

acccctcca cctcctcccc cccttctcat cttcccttac acccctcccc cacttctccc 60

ttccccctcc acctcccca aaannnccgc cccctccaac cannnnnnttn nnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt nttttttttt ttttttaatt 180

tatattgggg actttctatg aggaaaaaga tgtcaagagc tcaagatgga atactgaagt 240

acatgctgaa aatgatggag gtttgcaagg cacaagggtt tgtttatggg ataattcctg 300

agaaggggaa gccagtgact ggagcatcag acaatcttcg tgaatgggtg aaggacaagg 360

tcaggttcga tcgaaatggc cctgctgcca tagtgaagta tcaagctgat aatgcaatcc 420

ctggaaagaa tgatggatgc aattccattg gtccaactcc acacaccttg caagagttac 480
aggatacaac cttgggttct ctcttgtcag cacttatgca gcactgtgat cccctcaga 540
ggagattccc attagagaag ggtgttcctc caccatggtg gc 582

<210> 5801
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075c12d1

<400> 5801

ataagagaat aaaaatcttt tatttatgtc acagtcgtac atatatgata gtaagtaaca 60
acatagggct aacacaaaaa gacacacatt aaaaggggta cattatggga acacccatga 120
tttattaacc cataatatag taccaccaga ccagacctgc caaagcataa aaatatctaa 180
agacctaaac gattacatgg gaagaaaaat gcattaactg ccttttgagt caagggactt 240
tcacatgtcc ccttttaatg acacaataaa agcccttgat acacgagttt cccctcttgt 300
cattttcact ggtaccaa at tgaaacctct tgctgtttgt gaagaggatc cattcctact 360
cctccttgta tatcctcctt gaaatcaaag gatgacaaat cacaagggga attaaacatc 420
aaatggatat tattattggt gctatggttg gtataaaagg ggtatgagtg ttcattgttca 480
tggtggcctt gaaccgggtca aattga 506

<210> 5802
<211> 394
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075d01d1

<400> 5802

cgtaaagggt tgtattcata ttttcaactc aaaattttct acgtgaatag gggtatcaaa 60
catctcttaa caaaattgct aaagtagcag aaattataag gagcaacatc ggcaggcatc 120
agctgatcaa cctgagataa gaaacactct agtaaaagaa caaggtcctt gatatttcaag 180
gcactccttt tttcttttta cggggtaata ttgcttcgaa ggtttctact aacagaaatt 240
agactctccg gaatttaa ac aagtattcat cgcaggcaaa aacaaaagggt taaagtttat 300

cccttaagc tttatggttc cttaacttc tgtttcccg tcttgatggg agatcacggc 360
 tgagctttcc agattgatga aaggtcagcc acag 394

<210> 5803
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075d02a1
 <400> 5803

catgcacaca aagtaaagga caaaaaacca tgcaactcat catctcatga tcttgaagtg 60
 agaaagggac catggaccat ggaagaagac ttgatcttga taaactatat tgcaaatcac 120
 ggagaaggag ttaggaactc cttagccaaa gcttctggtc tcaaacgaac gggaaagagt 180
 tgtcgactcc gttggctaaa ctaccttcgt cctgatgtta gaagaggaaa cattacaccc 240
 gaggaacagc ttttgatcat agaacttcat gcaaagaggg gcaataggag gtccaaaatt 300
 gcaaagcatc ttccaggaag aatctgccat gagattaaga acttctggag aacaaggatc 360
 caaaagcaca ttaagcaagc tgagacttca caacaa 396

<210> 5804
 <211> 347
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075d02d1
 <400> 5804

gagagcaaga aacaagctta cttcacaata ttatacaact tattagttaa gcaaaaatta 60
 ctcatgctct cgtagaggta tttccagatc atgacagaga caacgcaatc cggaagcaag 120
 acttaataga agtactacta agtaaaaaat aaaataaaag cccttcatag ttaacatatc 180
 cttaactttt gtgttttctt gaatctaaag cacaataaaa acattaaaca cccatagtgg 240
 atactcaaaa gtatagtga ctctttactt tgccaatgat ccaagctcat ggctcgaagt 300
 tctcatgttc atcttcaaac tcttgctggg tctgggtccc gctgtag 347

<210> 5805
 <211> 417

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075d03d1
 <400> 5805

ggcaagacat taattaataa aaattataac tcatcagtag caaaaacagg tcaaaacaaa 60
 attacgatgc caatttggga aggactaaca ggataatttg cactaatcga tgtcctgggg 120
 ctcaaaacat caccttaaat ggggtcccgcc acacataaaa gcaactaaag ccctataaaa 180
 atttggaata cactaaaatc aagcagcccc ctttcccttt tttttttgga ggtttttcat 240
 gtaaaactcc aactccttac cttccagaat gtggccatca gctctgccac attgaccagg 300
 tcttgaggaa atgcaagcaa gcaaacgccc accaccaaac tggctcctca tgggagcatc 360
 aagctttcga tctttctggc gcttctccaa ttttctctga catgggtact ctttttg 417

<210> 5806
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075d04d1
 <400> 5806

aaccctcaag ataccatcaa tgtgactctc catttatagc aggatttctc tacttatcaa 60
 tcaatgaact atactattaa tatctataaa gaatgaagac cgagaggtat gtttcaagtg 120
 ttgggtgtgga agttgttctg ccaccaatag atagaaaagc cccattactc cgggtgtgctc 180
 acggctgctg ctgtaattag actctagagt taaagtttca ccatcaatta tatttacaga 240
 accaggtcga ggataacatg tgctcattcc tacaatgtag tctgcttcat ttctgcttc 300
 ttttcccttt ccataacttg gtatcgaaga acatataact cttccatcct gtccatatag 360
 agttgatcca gttccacctg aatgttgatg agcaacacca tagatgacat 410

<210> 5807
 <211> 317
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075d05a1

<400> 5807

tctaaatctt attcttcacc tgcaactatt ttgattgctg atttttgtta ataccatatt 60
tactgatatt ggcgcatttc tttgagaaat gcacttattc cttgatagag gcaaaaatgt 120
cgggtatttt caaggagaag taggttaaag cacccaaaga gctgaacagg ccagcttagn 180
agatttcatt cacttagcct aagctaagcc acgaaatcct tcaagatttc atgtcctgct 240
attcctccaa tgctttctca aagagcttag ggtatgatgc tttgctagcc tattccccct 300
caaacaagcc ctccatt 317

<210> 5808

<211> 661

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075d06a1

<400> 5808

cgcccaactc atctcccttg aancnctnn nnnntntnn nnnnnnncc cnnnnnnnn 60
nnntnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntnttt ttnnnnnnn nnntntnnnn 120
ttnntntnt ggggttnntt tttttnntt tttttttnt ttttttttt ttttttttt 180
ttttttttt ttgtttggag gacgcgcctt ttcagaggat tcattcgagg accggtgtcc 240
ccttcaactc catgctcttt ttcgatgatg agaataggaa catccaagcg gtgtctaaaa 300
tgggagtaac tagcattttg gttggagatg gggtaaact tgggtcgta agggaaggcc 360
ttacacaatt ctctcgaaac tggaatgcct cgcagaagaa caagcacaaa tggctttcca 420
agtactccaa caagtcagat actccaacc ccaactgcag aaatttaaca tcccattgaa 480
ttttctctat ctggattcta ttcagaacca cactattttg tatcagtcgt ttccttaat 540
gaagcagact gggagaactt gaatagaaac ctggtatttc caacagctat atacttgaat 600
attcaattgg aattttctat ggatgtgatt cagaaactat ttaatgaact taaatagaag 660
t 661

<210> 5809

<211> 331

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075d06d1

<400> 5809

catgaaggaa gataattctt atgactagtc gtagggaaca caggcaacgg aaatagtctt 60
gaatataaaa caaacaagta tatagcatag gcaaactctac aagagagatc tttgataaac 120
aaacaagcat agcataaatc cacatggcag atctttgatt cagatttttt gagattaaca 180
aatcattca aatgcccatt ggttttcccg acgaacttgc tcttctcct caggggtgaa 240
gccattctta atgttaacag ggcttgcgaa tttctctgg agccttcccc ttgatcatgt 300
cggctacagt tagacatgta aggtccagca g 331

<210> 5810

<211> 671

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075d07a1

<400> 5810

tgggtttctc atgctccctt gaanccntnn nnnnttttnn nnnnnnnccc cnnnnnnnnn 60
nnnnnnnnnn nnnntnnnnn nnnnnnnnnn nnnnnnnnt tttttnnnnt tttttttttt 120
tntttntttt ttgggtggtt tttttttttt nttttttttt tttttttttt tttntttttt 180
ttctntgat tgggttggtg tgattatata caccgaacct tttgtgatt gctttctggt 240
ttgtgatcag agaactcttg atccgatttt gcgttggttg cttgcctctc gtcaattgaa 300
tttctcccat ttgtgatcaa tatgtatcgc tctgtttata ttattatttt ttttaataaga 360
atttgtaagt tgaagattta tgttttctat ttgaccgctc aataatttga atatgattgt 420
catatttgat catttgatat tataattctc ttgttatttg ctttttacgt acactcactg 480
atttcattct tgaattggtg cattatgtct gtttgtgttg ctttgttggg tgttctgttc 540
taactagact nttaggattg atgatttggt gagatcatcc cttgttagat aaattctaga 600
ttgtgaatga aatgttttat gaccgcgaaa tctctcgatt gttcagggtc agtgctgtga 660
tagttgtaaa a 671

<210> 5811

<211> 346
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075d07d1

<400> 5811

aaaggaggagg gcccccccca aaaaaaaaaa aataattcct tccataaggg gtcccccttt 60
aacccctcagc aaaaatgggg taaccccccc tttcccctcc catgatccct atttcccggg 120
ggggaaaatc ctttgggcca ataaaagcta aacctttttt ccctcaataa aaaaaaacccg 180
gtttaatccc ccggaaattt tggaataaaa attggctgaa ggaaccccaa agttttggga 240
ccctgggtctc caggtaaaag gttccccctt catttgtttt ccggtttggg gggggaggcc 300
cggaagcca accccccacc cccccaaac ttggctttg ttttgg 346

<210> 5812
<211> 628
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075d08a1

<400> 5812

gggatgccgt cgtcgatcca nnnnnntttn tgnncnccc cnnnnnnnnn nnnnnnnnnn 60
gncnnnnnnn nnnnnnnnnn nntnnntttt nnnnccccctc ttccanacag ggaagtgtgt 120
ggggaactga ctatggtgca tacacttatg agaatcttga gagagagcct tactggccat 180
cagagaagct taagatttcc atcactggtg ctgggggttt tatcgcgcca cacatagctc 240
ggcgccctcaa gacagagggg cattacatta ttgcttctga ttggaagaaa aatgagcaca 300
tgactgagga catgttctgt gatgaattcc atcttggtga tctcagggtc atgaataact 360
gcctcaaggt tacagagggg gttgatcatg ttttcaatct tgccgcagac atgggtggga 420
tggtttttat tcagtctaac cactctgtca ttatgtacaa caacacaatg attagcttca 480
acatgattga ggctgccagg attaacggca ttaagaggtt tttttatgcc tctagtgtt 540
gtatctaccc tgaattcaaa cagttggaaa ctaatgtag cttgaaggag tctgatgcat 600
ggncagctga gccacaagat gcatatgg 628

<210> 5813
 <211> 375
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220075d08d1

<400> 5813

agataaactg tttcatcaat tatttttttaa tagcgaacat aaggcagaaa tttgctacgt 60
 tgtcatcaat gccataaatt attacatcta aaatttcttc aatcaagggt cattaatctg 120
 tgttgtaagt caaatcaatg acctgtacac agttatctaa tttcttgagt gtcaaaaatg 180
 agaaacacgg gcataacatg gacatctgac actgtcattc catacagata cttgtggaaa 240
 atgagtatga aacattaaca agcaaagtca attcatggct cagggttgcgcat tttctcgcat 300
 tcttcccgta ttgactggaa aagaatagtt gacaaatata tttcaccaaa gcttgggaag 360
 acaaccccaa taagc 375

<210> 5814
 <211> 656
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220075d09a1

<400> 5814

ggaaaaacgc gcgatactcc gatnccaant tnananttta tgcaccccct ccttaaatta 60
 tatatttntt ttaaccccct tctttgttta acttttttct ttttctaccc accaaccaat 120
 aaccatgcac atgggttttct ctgcataact tcttccgccc ctgccaacat gacttgcgag 180
 catgtgtgtg ttaactcttc ttcactttta catgcatgct tgagggtttg aggtttcaac 240
 attagatggg cttataaagt catcatatac aactcacat atatatatat atgggtaata 300
 taaatatttg ttctcaagaa ggatttagtt gattccattg aagattgaat gcactaccac 360
 cagcaccttt aagtgggaagg ttaatttctg gtgtaaatat atcaacgagc tttatctaca 420
 taaattaatg tcgaccaagg tgaaaggcat ccttaaagga cttagatata tatcccaaat 480
 attcgaagag aaagaagaag aatttcaaatt tgggttgcca actgatgtaa agcatgtagc 540
 acatattgga tcagatgata catcagcaaa tgcaccaagc tggatgaccg atttaaagga 600

ggaaaagaac cctcatcagg aaaccctact caaacagttg aagaacgtga gaaaaa 656

<210> 5815
<211> 284
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075d09d1

<400> 5815

tttccttttt tttttttttt tttttttttt ttttccaatt taattttttt atattggtgg 60
gatttttttt tgttcaactt tctgtttttt gataaggtaa taaaaccttt acaatttgcc 120
aaaactgcaa gaattgcccc acagacaacc ctatattctc acgcaatatg gtaagaaaaa 180
acaattgagg aatagaacga gaagctccca aacaacaaat ccctaacctg ttgttggtga 240
cccaatcgca ctattaacac tcatccccc caaaaacaaa agaa 284

<210> 5816
<211> 536
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075d10a1

<400> 5816

gaanacctgc tctctctgta accacnnnnn nntttncgna aancccntnn nnnnnntnn 60
nntnntnnn nnnntttntt tttttntttt tttttttntt atttttntt tttttttttt 120
ttttgggggt ttttttttat gttnttccc cttttccttc actttccttc ttcttctct 180
cctttgttcc atgaaacaaa actcaaagtg ttggatagga gggtgaggat aacagagctg 240
gtgttaaggt gtgtgaacct tgggtctaaga gctgctgcaa ttgctcttgt ggtgactgat 300
tcccaagcca aggaattttt ctctttcac aagaaagcta aatttacaga catgacggct 360
ttagtgttcc tggcaaatg ccaacggact aactgttccg tactccataa tccaaagatt 420
gcgctttggt gtgagtatca ttagaggaaa tgtactcttc aacaagccct ttgcttggct 480
catacactct gatgatcacg tgatggcata tgtgactgtc gctgcagcga tggctt 536

<210> 5817
<211> 548

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075d10d1

<400> 5817

gatcatcagc taggttctat atatagtgga atgaatattc tacatttgtg cttaaataaa 60
caatttaca tgagggaaac cacatgaata tgcataaatt ttttcatgaa aaaatgtgac 120
aaaaaagaga agaaaatcgg gttggcctaa atatctgaac tgaagtccac ttcaggttgt 180
atattgccat gtataatcca gaaccagtca atgcttcagt ttctgaaaca aagcttctat 240
attgaaatca tgctaagttg tagagaattt gatcagatcc agtgctagt cctactaatc 300
caagacttca gatggccaaa ggcatttcca agtggcaatc tcagcctcgc tggtaatctt 360
tcttattccg ccataaaaatc catcagcctc gttccctcc tccctatgat ctttccact 420
gacagtggtc agcctccatc gtgagcagga gtgtaatgat tgaactctag caccacagt 480
tcactactat gacatcggca ataattttca ctccattgc atgactccaa gtggcctaca 540
acaccata 548

<210> 5818
<211> 346
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075d12d1

<400> 5818

aaatatgact ttcaaaataa ttattataag aaaataataa tttttaatta tacaacaatt 60
catgattgaa taatagcata aacaactttt aaactaatag tatattccaa tcaatgtttt 120
ggctgaaagt taaccctaag attcatatgc caagaagagg acaataatg aggtatgctt 180
cgacattaaa atataaaatc tattttacat caacaatatg ttattcagca aaaagaagaa 240
attaaaagga agaagaagaa gcttgctagt ggcaaacat gactaggttt ggccttcca 300
ctggcatggt gaacttgact gaccaaggtc agcagattct aatgta 346

<210> 5819
<211> 469
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075e01a1

<400> 5819

atagcaatca aattagttca ttctctttgc gcagntccct acctctcctt tcaagaagca 60
gatcttcgtc aagacctca cgggaaagac catcaccctt gaggaggaaa gctctgacac 120
catcgacaac gtcaaggcca agatccagga caaggaagga attcccccg atcagcaacg 180
tctcatcttc gccggaaagc agctcgagga cggccagacc ctccgact acaacatcca 240
gaaagagtca acccttcacc ttgtccttcg tctccgagga ggcattgcaga tcttcgncaa 300
gactctcact ggcaaaacca taacctaga agtcgaaagc tctgacacca ttgacaacgt 360
caaggccaag atccaggaca aggagggaat cccccagac cagcaacgtc tcattcttcgc 420
cggaaatgca ctagaggacg ggccgaccct cggcgactac aacatgcag 469

<210> 5820
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075e01d1

<400> 5820

aagcaccacg aagtgcctta aaaaactata taaaatacat taggaacatc agggcttccg 60
attcaaacat gaacaaccag cagatacata agaaatcctt agcagctaata taaaaataac 120
cagataccgc tatttagttg ctgtatataa tccaactctt cacttgaaac atttaggtga 180
atactactac agccatatgt tgaccacctc attctttgcc atctgctgct cgaagtgagc 240
ctagttgaac tggggcttga gtctgcacca ctttggaaga ccatacact gatatatcaa 300
taccttgagc cttctccttc tcgatctgct ccttaatcca gaagtatgtg atcctcagtc 360
catccttcaa cctcatagtt ggagcccaac caagtttttc tttataagt gtattgtctg 420
aattacgacc tcggacaccc tcggggccag gaatgtggtg aataggaata ttcttgttct 480
aaagccaaga atgatctcag ccatctcatt catgctgacc atctcatcgc tttcaatatt 540
tactg 545

<210> 5821

<211> 274
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075e02d1

<400> 5821

gacaaaggta agtatgattc acaccctaac gagttaaaaa tagacagata tccatgcaaa 60
ttaggcggcc aaaagaattg accatttttg caacggagtt catttttagtt ttacaacagc 120
taatctccag gaccaaattgt gatcaaattct aagctaacca ttaacaagta catgtgctaa 180
aaaatttagc catgtcccaa tgtacatcat cgaggaagaa ggaggggatg aacttatccc 240
cgatttacct tgcccattct tatgctttac actt 274

<210> 5822
<211> 439
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075e03a1

<400> 5822

aaggctttcg ctttcaacttt caccaaaacc ctaattctct tgggtgccct ctctccctc 60
ctgctgcaaa cccacgcggg cgcgggcccc cgcaccgtcc aggcccgct ctacagcctc 120
tgcaagccca ccaccaaagg tgggctgagc tacaggacca tcctgccgga ggagctgggc 180
ctgccccgct tcaactatta cagggccctc agaggaggag atgctcgca cccagaaaca 240
ggtggagaaa acctcgaagt tgataagcga gctccaggcg aggcccgaa actcgaaaga 300
tctcggcgac tactccaga tttagaaaga gcaggacggc aacatcatgg actcgaaggc 360
ggaggccaaa agtcaagtgg ctacgcgcaa cgtcatagag gcacggttca aggtcagctc 420
cgcaggatcc tactatgaa 439

<210> 5823
<211> 565
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075e03d1

<400> 5823

gatcaaatgg cataacaatt ttatataaaa aagaattggg ctgcttaatc aatgacaacc 60
 actttgggggt ccacttgcca gagaaaatac atccatcggg agagaaaagg ggggtataaa 120
 tttatattat acaataaaaa aaattcagca tcctttgttc aacgtttctc caagtcttcc 180
 ctgatctaga agttggaact cccgtttgaa tctctggatt aacctgaact ttgttctttg 240
 caacatatgt catcctatcc ctaataatat tgggtaatat tggatagtag aagcatttca 300
 aatgaataaa ataattaaat aaataaataa actttgtcag aataaccaag aagcattgcc 360
 atggcagccc tagctcatgc taccatctgc tcctgctcta tatacagctg ctccatccat 420
 ggtggaagca tctctttact gagatcatat tgttgcttct cagcaccaaa tatctcagac 480
 ctctcggagg gaacatctct aaccaatgaa tgaacccatg agacatcccg ctcacacca 540
 attcaggctg tgctatgggg gatgc 565

<210> 5824
 <211> 485
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075e04a1

 <400> 5824

ttaagatcaa aggacttcct tattaggagg ctcatgcaga accttacatg aagaatttag 60
 taacacgcga tgttgtttcc ggtccattga taacgttttc tggcatcgaa aaggtagcaa 120
 atatattgca agctttgaat actactggac ataaaggggt tcctgtcatt gatgaaccac 180
 ctttctctga ttcaccagag ttatgaggac ttgtactgag gtctcattta ctagagttac 240
 tgaaggagaa gattttttca agggataggg gtttttagcaa atcaaaggat cttccaaaga 300
 atttctactt tggattttgg aaaagcggga tctggaaatg ggatcaaact agaggatctt 360
 gatatccaag aagaagagat ggatatgtat gtagatctcc atcccataac taangcatct 420
 ccttacactg aggntgagac aatgtcacta gccaaagctg ctattctttt ccgacaacat 480
 ggact 485

<210> 5825
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075e04d1

<400> 5825

ccttgataga atatgtatat attcactcat acatggtata tagcgacatt accatagaac 60
atacatgcat agttactata aaaatataaa caagctgcct gggtcagaaa tccaactgga 120
aaatagggag tgcaaagtcc aaagttgtca actcaaacgc aaccactga aactgtattc 180
caaagaggac cttctaatagc tgagttttctc tttcttgatt tggacaagaa gagggtaaac 240
acaccatgag aaacttagat aatgatccct attcatgcct tcattatagc aaccccagta 300
acttgatga taagtaacat ggtaccaagc agaagctttt gcatacacat cactactccc 360
tgaatctaca tcaqcaactgc tgttttcatt gaaccaggcc ctggcctctt tccttaggga 420
cctcacagcc atattgattg cttctgcac cctccctttg ttgaaagatt ttgacatttt 480
cataatattc ccaccgagga tttcagcttc agttttgatc ccatag 526

<210> 5826

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075e05d1

<400> 5826

acaaaaattc caatacatTT tgaaataacg aatcggtcaa tattgggttat acatggtaaa 60
gatatttgaa caagagggggg ggcacagaaa gagagatggt gaggggtggaa atagaaaaaa 120
aaaaaaaaa ggaataacgt gtcagaaggc cacactaatg accaatgttg ctatatacct 180
ggaataacaac aagggtcata cttatgatca ttgggtctaa ctagtgtgat acaatacaat 240
cccatctcca tgaagctaca tttaacaagt tacactgatc tttccgctgc tagtagaatc 300
aatttgtcaa gtgatgtttt gctctcaaca tgggtgatat ttgaagtttc taccagtatg 360
gtatccattc tgaatatttg gtgacgtatt ctcatgagtt ggaataatcg tggaagttga 420
agtttagagga tgagacaagg tgcgaccact ctttcctga aat 463

<210> 5827

<211> 666

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075e06a1

<400> 5827

cgencntaaa ctgccctctc acctttgtaa nccccnttnn nnnnnntntn tnngnnnnan 60
nnncncnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
nntnnttttt nnnnnnnnnn nnnnnnnnnn nnnnnnnnng ggggnnnnt nntnntntnt 180
ttntttcttt tttttttttt tttttctttt ttgggaagtg aaagaaatat caacaagtgc 240
cggctcaatt acatccttca caaagttggt tgcgagagac tcttacgacc atgaaatgga 300
agttgatggc ttcattgatt atgttgatga tgctttctat cacaaaacca attatgacta 360
caagttggga aatctgatgg actactatgg gatcaaaact gaagctgaaa tcctcgggtg 420
gaatattatg aaaatgtcaa aatctttcaa caaaaggagg gatgcagaag caatcaatat 480
ggctgtgagg tccctaaaga aagaggccag ggcttggttc aatgaaaaca gcagcgggtg 540
tgtagataca gggagtcgtg atgtgtatgc aaaagcttct gcttggtacc atgttactta 600
tcatccaagt tactgggggt gctataatga aagcatgaat agggatcatt atctaagtta 660
ctcatg 666

<210> 5828
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075e06d1

<400> 5828

aaatgatagt gcacactttc ataaatctta gaattgttct tgacatttta tacaatgcag 60
ctgtgtgcta tattctttct ttcataagca cttgataaca atacattatc catgaacatg 120
ctgaaactta ttaaaacaaa gtgacttagg gaagaaagca atttagaaca ctttgggaaca 180
aatttaatta ttgctgggct ttgaagggtc gatatttctt gagatcttga gcgaggcctt 240
ggatggagcc agcagctgag ataatagaaa cgatcaagca agcccagctc aatatcttga 300
gccatgtcca agtgaaggaa aacttttgca tctttgactg cttaatgtac atctctatgg 360
ggaagtaaac cgctaattggc caaatgaca gtgaaccaat caggcctaag aagtcattga 420

agaatggaaa catcataact atcaaagcag tgatgatgac atatggttgt tctcatacca 480
ccctgaaaaa gtt 493

<210> 5829
<211> 669
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075e07a1

<400> 5829

aatcacaaca aacttcaatt aaacttaaaa tataaaataa aaatttaaaa acttaaataa 60
aataaaaaaa atacaaaatc taaaacaata taaaaatcat aaataaaaaa gctatattga 120
accaannntt tatnnnancc cnnnnnnnnn nnnnnnnnnt nnttattttt taatttttat 180
tttaattaat aaaaataata taaaaaaaag aggaaatttt ataaatatta atcaaaaaat 240
aaacaaatat aaaattaaat acaaaaaaat gaattggggt gtaaaacgga gacaaactga 300
acaagctgag gaaatatact tgctttggat acagaaacag tggggtaact gcatcccaca 360
tagcacaacc tgaatttagc gctgagacag atatatcatg gggtcattca ttggttaaag 420
atgttccatc cgagaggtct gagatatttg gtgctgagaa gcaacaatat gatctcaata 480
aagagatgct tacaccatgg atggagcaga tgaatataga gcaggagcag atggtaacat 540
gagatacggc tgccatggca atgcttcttg attatactga caaagtttat atatttatat 600
aaatattata ttcatttgaa atgcttctac tatccaatat tacacaatat tattaaggat 660
aggatgaca 669

<210> 5830
<211> 361
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075e07d1

<400> 5830

aaagcaaact tacttgcttt ccttctatac caagccatat gctaccacca ccacaacaac 60
catttttttt cttttttttt acatcacatt agtaccacca caactactac tagttaataa 120
actactacta gttaatacct gtgaaacagg cttttaatga gttcagaaac ataaataaaa 180

aaaccctcta aaaatttaac ccaaaaaaag ggagaaaaag taacatctcc cgccagatat 240
 taattaataa agaagggcct agaaactatt taataatagc cattctcaaa tgggtgctgct 300
 tttgcggaaca acgtagcgat atgcagcaac ctttttcttc cttgaggcag tgttgtcagc 360
 c 361

<210> 5831
 <211> 463
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075e08a1
 <400> 5831

cgcttgatcg tcnganncca cttnnnnnnt ttngggacac nnnncnncnnn nnnnnnnntn 60
 nnnnttngnt nnnnnntnnn tntnnttttt nttttttttt nttnnctttt tntttttttt 120
 nggtcggggg ggatatgtta tgggcacccat ataacttaag gggataaact tttacctttt 180
 gtttttgcct gcgatgaata cttgttttaa ttccggagag tctaatttct gttagtagaa 240
 accttcaaaa caatattacc ccgtaaaaag aaaaaaggag tgccctcgaaa atcaaggacc 300
 ttgatctttt actagagtgt gtcttatctc aggttgatca gatgatgcct gccgatgtta 360
 ctccctataa tgactgctac ttttaacaatt ttgctaagag atgtttgata accttattca 420
 tgtagaaaat tgtgagttga aaatatgaat acaaccttta acg 463

<210> 5832
 <211> 584
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075e09a1
 <400> 5832

cgcttgatcg tcgatacaaa tttaannttn nggcncncc cnannnnnnn aattnnatna 60
 agggaaaaan natttnaacc ctaatttttg tntntgtttg ttggaagagc tcactctctg 120
 tgtcttcgtc atcttcccca accagagatg cgccccacaa cagatactta ctaaagcttt 180
 caactttcca acaccctttc agatgttagc caaggcccat aacaaagggg atggatctaa 240

gtccctggct aagatactgg caaaatggaa agaataataat gccagattg attccagcag 300
 tgatgcagat aagccaattc gcaaagttcc tgccaaagga tcgaagaagg ggtgcatgaa 360
 aggtaaaggg gggccagaga actcacggtg taactaccga ggtgtcaggc aaaggacttg 420
 gggaaagtgg gttgctgaaa ttcgagagcc aaacagaggc aataggcttt ggctaggtac 480
 ttaccact gccattggag ctgcccttgc atatgatgaa gcggccaggc caatgtacgg 540
 ttctgtgcc cgtctcaact ttcccaatgt ttcagtttcc agtt 584

<210> 5833
 <211> 364
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075e09d1
 <400> 5833

ggaaaaaaaa atatcagccc cccaaattgg taacaaacag gggtaacatt aaggggacaa 60
 taggggttcaa cccaaaccaa acttattttt aaagggtatt acagacccat tacacataaa 120
 atttttttttt aaaaggggtgg ggaaaatcca acattgaaca ttacacaaaa attagctcca 180
 gcttaaaacc ccccccgaag acccaacacc aagggcgagg gtgactcctt ttggagggtg 240
 gaatcagggg ggggccttcc atcctctagc tgggtggccag caaaaaaaaa cctttggtgg 300
 tccgggggga atccttcctt ggccgggaac ttcgccttca cattggcaag ggggggggag 360
 ctct 364

<210> 5834
 <211> 621
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075e10a1
 <400> 5834

tgaaaaagct tccttatctt cgaanccact nnnntttnnn ngaaannccc cnnntntnnt 60
 nntnnatttn gcttcttttt tttttttttt tttttttttt tttttttttt ntnnttttct 120
 tntttttggg gttttctttc tcttattttc ccattctaca ttttaatcct acattatttt 180

cccctttctc cctttactgc tacagagaat gaaacaacga ctgatgtaac caagattgag 240
 gaaactaccc cagaacagcc agccaccgat gttactgccc cagaaacagt caacgaaaaa 300
 gcaaaagagg aagcagcagt tgagactaat gatgcaacag aagttacaga ggaagggaag 360
 gctgataaaa cagaacaaga agaagaagtg aaagaggaga ctaaagaaac cgaatcagca 420
 ccattggagg aagagaagca gggggagaac aaaccagctg aaaccgtaga ggaacccaaa 480
 acataacatg tttcttgtcg agaagactga agtttaagcc cattgatata tgttattgtg 540
 agtgggaaaa aagaagctct cgcattttta atttaaatat tattaatgtc gttattgtaa 600
 tgctaagtct ttgggtattg c 621

<210> 5835
 <211> 579
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220075e10d1
 <400> 5835

gattaggacg ttgcacgtct gcagatgcat tttatttgta cctaagaatt aaagatacac 60
 tcgagcacac agccatttca gtcttgagca cttgaaaagt taagtccaca taattcatta 120
 aagacattgg aaacggcaaa agagtatcag caactgaggc tatccgaagc cagagatcca 180
 aaattacaaa aggcaaaacg ataaatacgg aatgaatatg caataaaatt ctatcatatg 240
 atgaatcaaa attcaaaatc agtctacccg ttgatcaact cctgcatatg tgggaaacga 300
 gatgcaataa aattctacta ccatgagatg aatcaaaatc caaaatcagt ctactgggtt 360
 gatcaacttc tgcataatgca gtttcaaggt gcgcttgctc tgcttcttgt acctccttct 420
 cagttttcct gccctttttg anttgtagta tacactcata aagggtccaa cagctccata 480
 cttcctccta gtatgctcat ataaaccagc atcaaacatc cttcagaagt ttttcttcga 540
 cagctctgac acagcatact gtggctgaaa ccatgattt 579

<210> 5836
 <211> 637
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220075e11a1

<400> 5836

tgaaaacacg gctgctcgc tegtannccc cnnnnnnnnn tttnnngnnn annccnccnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntttttt 120
nnnnnnnnnn nnnnnnnnnn nnnntctggg gggntttttt tttttttttt cccccttttt 180
tttttttttt ttttttttta ttgtgttcgt gtctaacaat ttatctcttg gagaacgtca 240
aattgctgca cagtttcaag aaattccatt agatcttcgt atgggtggaag ctgagcgaat 300
tggatttgat atgctgaagg caactgcagt tgacaaaatt ccctcagatt tagaagggat 360
ggaagcatca atgcaacatc tgctagtctt gattgatgac atctacaaat atgttgacga 420
tgttgtggaa ggacgagtgg caccagacaa caaaatcggg agatttatat cagaagctgt 480
aggttccctt cccaaattgt ccccatcagt ttttgataag cttgtgaatg acagtttgca 540
agatcacttg cttttgctgt atttatctag tatcacaaga acgcagctta gcttggctga 600
aaaattgaac acagctgctc agattctgtg attcttt 637

<210> 5837

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075e11d1

<400> 5837

agataatgga gagaaagctt tttgctcatt ttctttcaaa tacagattac atgaaaaata 60
acaagtgaac gctacactgc ataccttgga caataagtga acttacctag caaagaccag 120
cacaaaacat aaataaaaaa taagcgaagt aaaagtgaag tataaaacgc tgacattcca 180
cgtttctgga aataagacaa gaaaagaaac tcagaaaaat ttgacttcgg cgataaacia 240
gcggaagaat cacagaatct gagcagctgt gttcaatttt tcagccaagc taagctgcgt 300
tcttgtgata ctagataaat acagcaaaag caagtgatcc tgcaaaactgt cattcacaag 360
cttatcaaaa actgatgggg acaatttggg aagggaacct acagcttctg atataaatct 420
cccgattttg ttgtctggtg ccactcgtgc tttcacaaca tcgtcaacat attttagat 480
gtcatcaatc 490

<210> 5838
 <211> 599
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220075e12a1

 <400> 5838

aaagaaaaaa aagaataaat taaaaaaaaa aaaataataa ttaaataata aaataaataa 60
 taaagatatt aaaaaattaa tataaaaaaa taatttctaa aaaaaaagnn nnaaggggaa 120
 agggtagaan ncaaannnnn ntttnnnngn nnnnncccn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnt ttatnnntt ttttttggt gtttcaattt 240
 ggggggtata agaatgaaat ggttcaaaat aacaaaagtt ccctattcaa aagaaaactg 300
 ggtttggtgg gcaatacaga aatgaggtgg catgtgcaa atggaggctt ggcgtggaag 360
 caaacaacgt agtcaagtgg caaactgtta cagcagattg cagaaagtac atagatgaca 420
 tacgttctag gagaccaata tagatcagat tccaaaacag ttaaccaaca agcttatttc 480
 tatgctaaat cactgaaact caccaacaaa gatgtctttg tcttggaaga tgacgacact 540
 actctctcta aaatccaagt attatgctaa aaatggattt ggtgtggaac cacacaata 599

<210> 5839
 <211> 536
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220075e12d1

 <400> 5839

aacttgaac ggacaatttc ttaatggaac aagagctcat aattcatgaa agcctcgaaa 60
 agggaaaaca acattgttca gtgccctac atgactaagt aataatactc aggatcttat 120
 ttcatagaaa ttaaggagca acttagaggc ttgatttgag agcttaatca tagtacaagg 180
 gattaggcag cttaaaagtc ctagtccctt tggtgcttcc caggagggtca ctccattggt 240
 ctccaacgtt tccaatgatt ctgtatccct ccttctccag cttctctctc tcagctgatt 300
 tgtattcaaa tgataactta ccagagtact cagatggatc cctgagaatt aacttctccc 360
 atgtgttgaa tccaacctcc ttaagtctt tggctgttac atcccctaga ctcaagtgtc 420

tttctgataa gaataacaatc ttgatgccga gagccaacag tttgttgtag attataagag 480
tctctggcag tgcgaatgcc tcgccatcaa gaacccagtt cttaaagccc gtcgta 536

<210> 5840
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075f01d1

<400> 5840

gagagaatac aagtgaactt gtaatcacia aagattttac cattattttc aaagtagact 60
tctttgtaca atatgtttct gcactcacta gacatttccc atttggtatg tccctaccgt 120
acacataaat acatgcagca tttaattaga agaagaaagt acgtacgtac tgtgccattt 180
tgatgatgat ttggttttgc tttgctatca attttgtggt ttggttggcg aggaacctca 240
caagaggaaa cgttcacctt ccaccttccg agagaaacat ttttgtaaaa tactaggtag 300
ataaaattca acaccaagaa cctaaatttg agcccgtggt attttgtcac atttatagat 360
ttgatatctt acccttaatt ttctttcata gacaattaaa ttcccgtgct aatgcccttc 420
ttccttcatt cctatcgttt gcagtgcagtg tgactctatc tcgttgaaac aggtaaaccc 480
aaaatcatga ataccaaagt cttgacagtc caataaccaa gcacaat 527

<210> 5841
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075f02a1

<400> 5841

gagactttgg gtagggtttc gtctcaactc aacaaacgtc gtcgttctcc catttccaat 60
ctttctocaa aggcttcttc tgcttcctta atcaactcgt tgacttgctc ttcgcctgca 120
cccactcagc actgtttcgc cttcacccgc accaccgnca ccgntaccgn cacgtnactg 180
agacaattca acagccaccg tccgccccca ctcaccacga ggatctcctc gtcgccttcc 240
accgtagtct gcaaagctgt ctccgttaag ccccaaaccg aaaccgaagg tctcaacatt 300

gctgacgatg tcacacagct catagggaaa acgccgatgg ttacctcaa caatatc 357

<210> 5842
<211> 371
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075f02d1

<400> 5842

ggaaaggaag ccccccttt aattaaaaca atgggctcaa aacatggaaa attttacacc 60
cgggaaaaaa aacatttttt tttccccccc cccccccccc aaaaaagggg tttgattggg 120
ggggggaggg gaaaaattta agaaaaattt gggccttttt aggggaaagg cacatttttt 180
acattctact ttaaaaaaaaa aaatcccctt aaatttccaa attccctatt ttaaccctta 240
aaaccaaaaa cccctaaag gctgggaatc tgggttgga attttcggga cattataaga 300
gcattttttt atataacctt ttaacgggcc cccaccccaa tttaaaccct aagggggggg 360
gggccccctt t 371

<210> 5843
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075f03a1

<400> 5843

agatgatgga gacgacggcg aagcgtttct ctgtcgttgc gccaatcgcg gcgtagttga 60
tggtggagct tctctcggcg agagtggagg tggaggctca agagaactcg gacgtgaaga 120
cgctggggat acacttgcac gggaagaagt gctgcgacac tggatgggaa tgtaagggct 180
ggtctattta ctgacgtaac ctactctga ctgattattt ccagacctac caggaggaga 240
atctcttcta caagcggaac tcgccggagg agcacgccgg aggattttgg gactaccact 300
cgttcatcgc cgggtaccacg cttttcgagc cacaatggat cggcaccagc gggaac 356

<210> 5844
<211> 397
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075f03d1

<400> 5844

aggaaaacaa aacatgattt gctgctttaa aaaggaatga tttaaaatac aaatcattat 60
gggctgctct ccccttttaa aaagacctta tccaaataaa aaattaaatt tataaaaaaa 120
tcctcccttg ttttctggaa agaacaatat accggggaaa aaaaaacaag gggttttttt 180
ccctccaggg gccccctttt ttatgtgtag gaaaaaaatg tccccaacct actggatcat 240
taatactttg gcaaaaaaaa ttttcaatgg tcaattttgg agtttgcccc cactgaataa 300
ttaatagcta ctttgggttc ataaaggatt agggatgttt aaatatcttg gatcatgcca 360
ggagctgata gccaaaagat ccaacgggtg aacgggg 397

<210> 5845

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220075f04d1

<400> 5845

aaattgaatt ttactatcca ataacattaa tgctggataa caacactcac aaatagggaa 60
caggacgaaa gctgtgactt ctatttaagt tcattaaata gtttctgaat caaatccata 120
gaaaattcca attgaatatt caagtatata gctgttgga ataccagggt tctattcaag 180
ttctcccagt ttgcttcatt aagggaacg actgatacaa aatactgtgg ttctgaatag 240
aatccagata gagaaaattc aatgggatgt taaatttcat gcagtggggg tggaagtatc 300
tgacttggtg gagtacttgg aaagccattt ctgcttggtt ttctgagagg cattccagtt 360
tcgagagaat tgtgtaaggc cttcccttaa cgacccaagg tttaccccat ctccaaccaa 420
aatgcttggt actccattt tagacaccgc ttggatgttt ctatttcat catcgaacaa 480
gagcatggag ttg 493

<210> 5846

<211> 526

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075f05a1

<400> 5846

ganccctccc tctatcgaac cctttnnnt ttttcggta annccnngg gggnnnnnt 60
nanntntggn tattttcttt tntnattttt ttttntctt cngccnttt tctttctct 120
tgggggtatt tttattaaaa ttcccccta ttctccacct ccaaccaa atttacattt 180
aatgtttccc tggatcaa acatcatc aaggtatcat gtcacatca atactaatgg 240
cacggtatgt gatcttaca ataagccact agacaccgac gtcagcatca gtctactcta 300
aaccgatagc aatgattaac tcaatcacat acatttccac ttgcaagtat gcactcaca 360
ttcaatgtcc gcagctatgc aagcaccat tattctatga agaaagacca ttatgccata 420
ccaacgactg tcatgtgctt tcaaaacatc actttgaatc caaagtgaga ccacaaaacg 480
aaaatactga tattgttata gtcaaagact tcccaaatac tgactt 526

<210> 5847

<211> 299

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075f05d1

<400> 5847

caaaaaaac cccggcggga aggggggggca aaaaaaaaaa aagggggggg gggccccccc 60
acccccctta aaaaacaaaa aagccctttg ggccccccac aaaggga aaaaccccc 120
ttttttttgt ccccccccc gggagatgca aaaaatatta gggggacccc aaaaaaaaaa 180
aggggcccc aaaaaaaaa aaaaaggggg taggccccg ggaataaaaa aagaagggg 240
ggcgcttggg tttttccggg gaccccccaa aaaaaaaag gggggggggg ggtcaaaaa 299

<210> 5848

<211> 525

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075f06a1

<400> 5848

cggccacccc ctctctttn nnnccnnnnn nnnnttttnn nntntnccct tttttnttt 60

tttttttnt ttttttttt ttttttttt ttttttttn ntttttttt ttttnnnntt 120
 ttttntttt tnttttttt ttttgggggt gtttttttt ttttttttt ctttttttt 180
 tttnttttt tggttttttt ctttaagtatt ttatcaagca aagaactctg tggctctcca 240
 tgaaacttat ctccatcact gcgttcttgc aagatactat caacctaaat atgttaaaac 300
 acacacaaac tattatctcc atagaatact tcataactct catttcatat ttgagaagaa 360
 caacttctta tgccacataa atactctatt acagcacttt gcccttggat ccgatacacg 420
 agacacaact actgatgttc caaatccttt tgacatagct ctatcggatc ctccacaaat 480
 tcctgaaggg tatgaacaaa actagatgtt caatatccat gccat 525

<210> 5849
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075f06d1
 <400> 5849

aaaaccataa tgcataatag agatcaattc ataaataagt attcagcaag caatttatgg 60
 atacaaaaga cggctccgat aaaatttaat gttactaagc aaacaaagga aaaaagtagc 120
 agagtggggt ttccacgaga taagagatac gcaagtcgat aagtatcata aaagattaca 180
 gaagaaaagg aacagactct tctcaactat atcctatttg ctgctgttgt tgaggagctt 240
 ggtaaccagg atatcccgga taactgccat acatgttggg atcctgtcca gcaggagcat 300
 aaccataatt ttcatactct tgagcagcat acccataata tccaccacca gaaccagcac 360
 cagcagcacc attccactgg tttggatctg cctgagcctg tttgtttgaa ggactgcgac 420
 cccatgaaag acgcacattt tgtccacca acagggctcc attcaacacc cgaagggcct 480
 cttcagcaca gctcctgtct gcaaattgga caaaccaca tcggttgctt gctggaatct 540
 tcacatga 548

<210> 5850
 <211> 669
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075f07a1

<400> 5850

ganataactg cgctgtgcgt tgattcccca tnnnnnnnttn nnnnnnnncc cennnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnntt tttnnnnnnn nnnnnntnnnn 120
nnnnnnnnnn nnngggggnn nttttttnt tnnntttttt tttttgttcc tggtagccct 180
agtgttcctt caccaccact cattccttcc ccatctccct tcaactggac atgcaactat 240
tgagggaatc atccagcaat catctgggga atccttggct ggtggggaac cctaggaagt 300
gcatttgggtg tgacaggtac tactgttcca gggttcagtc ctggccttag cttgccacaa 360
gcactttcca acacaagaac tgatgggcta ggagcactct acagagaagg cacagcttcc 420
ttcctcaact ccatgggtgaa caacaagttc cttacacaa ccaaccaagt cagggacagg 480
tttgtggcct cactcaactc caacaaggca gcagaagcac aagcccagct cttcaagatg 540
gccaacgaag gaagaatgaa gcctagacca tgatgaaata cagattaagt agtagtactc 600
ttaattagnt aattagtatg gtgtgccaat ttattgagtt aagaccattt atatttaaga 660
tttctgtag 669

<210> 5851

<211> 370

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075f07d1

<400> 5851

cgaaacatgc ctttcaacag gcacaaatta tattaagaa aaacaaaagg ggacaaagtt 60
acaaacaact taaaccccc caaaaaaaaa gttacaaaca agttggaact ttatttcttc 120
tcatttgaac ccaagcaaca aattctctct ttttctagct cttacaaggc caacaacaag 180
cttgttttgc agaagacgca aactcatcct agcaagagga gtagcttaaa tcttctgtgc 240
aatgtggttt ttttttctt tccaaaaaaaa aaaagaaaaa gcgaacaaca acaacaacat 300
taatggttgg tgttctttaa caaggcttgc caacgaaaca gtttagggca ccagcatgtc 360
gtgtcaacct 370

<210> 5852

<211> 583

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075f08a1

<400> 5852

cgcgcgctca gttttgaaac ccagatatna atttanaaag aaccnaccnc naanatannn 60
 aattanatta naggtaaaaa aaatatttat tataaatttt tttttttttt tactttactt 120
 gatggggttg ggggtttttgc taatgcgcta gccatattaa atgaggaccg ctttcttgca 180
 cctagaggat ggggcttcca agatttctca ggtggaagga ctaagtcgtt caaaggccag 240
 cttataggcc tcatttatgc aactcagtac ctcagagttc ctctcatact tctcaattcc 300
 atctgcattt ttctgaagtt ggtgtctggc tgatgcttga caagatgttt acttcttaag 360
 tattgcatgt tcaggagttt ttgtcagatg atttcacgaa ggtctttaag atagtaggtt 420
 tgccaaattc cactggagac atatcaactg aaatatttgt cctgtttttt gtgactctat 480
 ttattgccac aaaatagtgt tcttctttac aatagtaaca tacgaagggc atcatgattt 540
 tcaattcaga gttgtattca atttattgag tatcaattat cat 583

<210> 5853
 <211> 393
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075f08d1

<400> 5853

aatatatggt acaacaacca tattattttac gataatagga gaatgcacat gtagtatata 60
 agttactata tattttcaatc cataactaaa ttaattctta actcacatca tgcattacaa 120
 acaccaaact tagactactc atataaacag acctaattgat gttattaagc ctgaacacac 180
 tctacaagag cttagggttta tatatcatca tatatatgat ttatataggc atgcatatag 240
 ctaggtttta tctccattga gtaattgcat agacgaccag atatcctcga tgctccaata 300
 gttgttggtg tcgttggtgg tggtagaaca acttgattga tcagtgattg tagggaattg 360
 aggttggaat ggctcaaaaag ttccttggtg tga 393

<210> 5854

<211> 672
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075f09a1

<400> 5854

aaagagaaaa attaaaaaaa gaagaaaaaa aagaataaat atataaaaga gggtaggaaa 60
aagaagaaaa gaaggaaaaa aaaaaaanaa gnnaagggga aggtagaaac aaaannnnnt 120
ntnnnnnnnn nccccnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnt 180
tatntnnntn nntttntttn ttttnttta acagggtttt gtttggtntt taaataagag 240
caagagacag ccagttcttc agcaaagtca cccattaaga caaaaacagt gtcaaagaga 300
cagaacttcc caacaaagaa gcaccagaag ggaacaagcc agagcaacaa ccacctttca 360
ttccggagac tgaaaacagc tatggcctat atggtcacat tgatgagtat aaccaagtcc 420
cttccaccac caccaacccc acttcttacc acccctacaa gaccgagttt gagaactcca 480
acaacaagta ttacaacaat gatgcctata acacaagggt atacgaaacc gggtacaaca 540
acaacaagga ttcttatgag ggtaaccaat atgagttaag tgacacaaag tacacagaag 600
aagaaaacaa caacaacaac aacaagtatc acaactccta tcagaacaac aaccagaagt 660
actacaacaa cg 672

<210> 5855
<211> 369
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075f09d1

<400> 5855

gaatgagaca aagagcgctt gaggaacctt acaaattgcc cctatgaatt aacgatacag 60
tgagccaccc agccccatca gattacagca tacaacaagc tacttctata tacgccatgc 120
cagacaccga aaacggaaga agaatttggt tgctcgaaga tatatcgggc caagatatcc 180
cagaaacaca tacgcttgat caacaactcg tggggaagga tgctgaaaac atccagcgcc 240
gatgacaaag aatacataag acaaatgccc gatgccaac tcacagtgga cggtgaaacg 300
agatggaaaa caaattgccg accatgagaa caatgctaga actctatgga gactgtgcct 360

gatcaaggg

369

<210> 5856
<211> 575
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075f10a1

<400> 5856

gaaaaanaatc tgccctctca cctttgatnn ccccttnnnn nnntnttttn ttnttatnnn 60
nnctcnctnn nnnnnnnnnn tnnntnttnn ttttttntnt tttttttttt ttntnttttn 120
nttttttttt tttttttnt ntntntnnn nnnntnnttn ntntttttt ttttntggg 180
gggtttnttt ttttttttt tttttcttt tnttttttt ttttttttt taattttttc 240
tttnttttg ttggactcca gtccaaatat gtcgaagaaa atttgaggaa caagagtga 300
ctgcttctca aatccaaccc agttcacaag aaggttccag tgtttattca caatgagaag 360
cccataacat agtctcttgt gattgctgaa tacattgatg agacatggaa gaacaacccc 420
atcttgctt ctgacctta ccaaagagcc ttggctcgtt tctggaccaa attcattgat 480
gataaagttt ttggtgctgc atggaaatcc gctttcacag ctgatgacaa agagcgtgag 540
aagaatgttg aggaagcaat tgacgctctg cagtt 575

<210> 5857
<211> 368
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075f10d1

<400> 5857

ggaaaaaaaa tcgatccggg gggaaactaa aattaattaa ctcaggcctg ctcaaagccc 60
gggaagcttt ccctcacgtt gttttataca taagctaaca tgcccttccc cgggcttggg 120
ttccccctag cagaaaaccg cttccccctt ttttttccc aaggaaaacc aagcgggcct 180
aaggcaacct taatttcctt ttattaggaa cccaatttt cccaattgg tcctaattta 240
atagccgaaa aatgcccccc cccccgggt tgattttact ttttcaaaa caaatggggg 300

ggacatttgg gttagctcct gtttcgcaaa acccaccttt gggtttcccc attccttggc 360
cttttttt 368

<210> 5858
<211> 581
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075f11a1

<400> 5858

gtaacctcct ctatcgaccc ccnnntttnt nnnnncccn nnnntnnntn nnnnnnnnnn 60
nnnnntnnn ttttttttn ttntttttt tttttttgt gggtnntttt ttttttttt 120
tccttttttt ttttttttt tttttctttt acttttgtct tttgctgtat tatgtacca 180
aacttgagct aactgagtc aaccaccacc gagaccttgg tcatgggagt ggcacctgtt 240
aaggctcaat ttgagggtgc tgaaatgggt gtgcccgtg agaacgatgg ctgcaaagt 300
ggaccaaact gctcctgcaa cccctgcact tgcaagtgag gtgttgggag agcaagcttc 360
aagcagagat agcccttaat taagaataat gataaactat taatgtgtaa ctaaaaactt 420
atgtattatg tctgtgatgg ttctcgtgca ctctggtgtt ttgtgttaa caaacatcct 480
tagaataaag tggatcatgtc ttgcctttca gcaagttcaa gtgttttga cttgtgatgg 540
gtgtgaaaag ctcatgggtt cttctttttt ttttttttaa t 581

<210> 5859
<211> 393
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075f11d1

<400> 5859

cccagaaaaa gttttaata ttataggcgg agattcataa ttcagattag ccgaacttta 60
tacagaggcg cccatttccc aacctttaaa aaaaaaaaaa aggaggcccc ctggggctta 120
acacccccat caaaggcca aaacacttga acttggtgaa ggggaaaaca tgacccttt 180
tttttagggg ggggtggttaa acaaaaaaca ccggggggcc cgaaaacctt cacagacata 240
atacaaaagt ttttagctcc ccataaagag ggaatcatta ttccaaataa ggggctat 300

ttgggtggaag cttgctctcc caacacctca ctttcaaggg caggggttgc aggaacaatt 360
 tggccaaat ttgcagccat ggttttcagg ggg 393

<210> 5860
 <211> 372
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075f12d1
 <400> 5860

ggtaaaaaaa aaagggtttt tttttaaaaa aaaaaaaaag gggccccccc ggtttttggg 60
 ggcggggggg gggcccccaa gggccccccc attttttttt taaaaaaaaa aacggcccc 120
 ggggaatggg ggggggggta aaattaggcc ccccaaaaag ggaacggggg aaacaacccc 180
 ctaaaaaggt accttttttt tccccacccc accgcgggaa tttattatgg cggggccccg 240
 gttggttttt tcaaaaaaaaa aagggggggg tcgggggtcc cccccctttt ggaagggggg 300
 ggcccaaaaa agggaaaagg gggagggggc ctacctggaa actttggccc cccccgggc 360
 cccaagggtt tt 372

<210> 5861
 <211> 361
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075g01a1
 <400> 5861

gagaaacacg cgaacaatga ggggagtgc tcatgcaagc ctctgcaatt gtctgtgttg 60
 ctgtctcttt cttccctttt tcagaaggca gcgtcaccgc ttcattcatg gagaaatacc 120
 caaaaccaga caccgggatc aactgattac aacagtttct tcatagcgag ttctgtcttc 180
 aaaatcattg ctttatgttg gagtctttct ggggtgggccg cttcttccac aatggtagag 240
 agagtgagag agagtgaaag aaaggaaaga atgagtcagg aggaagatag agcgacatac 300
 tgagaagggg gtcctactgc ttaatttgtt aagggcacac acagtctctg tccatgattt 360
 t 361

<210> 5862
 <211> 456
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075g01d1

<400> 5862

atataacacc cacaaaattt gatattttca ataaatttta accaagagaa aatacattta 60
 aaaagtggaa aatactcttc catttagtgg aattttccag taggagatat gaacacattg 120
 tgtctacatc agtaaattggg gaggagtatt ttccaccgta ttgaggtata tttagctagt 180
 tctggccctc gcaagtaaaa tgttttgac atgcttctct tatttggttg caaagaaaac 240
 taagtaaatt gccaacatc attgcataac gcggggttca ggagttcttt gcaataaaaag 300
 tgccgtttta acagggctaa tccataccct tcatcacgaa actgaaatga caaacattga 360
 ttcaaaacct gccttaaaat taacataata tcacagaaag atcgagctat agttgacaaa 420
 actgataaca cactcctaaa gtgaactcaa tctaac 456

<210> 5863
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075g02a1

<400> 5863

agttggaacc tgctaggaaa catgtcctcc actgaagcta tgcgtctttt tgtaaaaata 60
 ttggaggaag aagatcctgg ttggtattca agagcatcta actctgttgt agaacctgtc 120
 atagatgtgc aaatgaataa ttccaaagtt gaaccagtaa ttgagaatgg gaactcttat 180
 ccagagacaa agactatttc caccctaaaat ggaagtgaag ttggaacaca ggataaagat 240
 attggtgagg aaggcttagg ttcagttgaa gtatatgac aaaggattgc acctccagta 300
 tctggaggaa atccaaaagc cccatatgag catggagctg cagntgagca agataaactg 360
 tacatatatg gaggaatca caatggtcga taccttaatg atcttcat 408

<210> 5864
 <211> 430
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g02d1

<400> 5864

gagtgtaatg taataattta atatggtaca cacacctaca cgacaagttt cgtgagctgc 60
agaattagaa aataagcaat acagacaatg aacaaggaaa ctaagaaata atatatgcaa 120
aactagagat tttctttgtg tggttgcatg gatatatcaa gcatcaagtt gaagcctccc 180
cattcaagcg tattctctta ggaccttttt cttcaccttg gttgcaggct gttccgatcc 240
tgttttcatt ggctctacc gaacatcttt tgtaaggttt aaaccctggt ggacgagtct 300
ttagctttcc tggccaaga cctatgatta gcagtccttc ctctcattg ttatctttga 360
caaatagcag atttttctgc accccatcac aattagaact gcatttcttg ctttcaaggt 420
cttcatcttt 430

<210> 5865

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g03a1

<400> 5865

ctctctccaa gttcatggat tcttcaaact ccaaaggagc atcacagagg ctccaggact 60
tggctcaacg gctccgctg tacaacccc caccattccc tgaagacatc ttggatcaga 120
tcatggaaga gaaggagat aaggctgtct cagaagtgag ttacacgaaa tcagccaccc 180
caattgctca aaacacagca aaaatcggat acaagagagc tgctgtttcg atctgcatct 240
ttgaagggga tgctggggat ctgagagtga tactcactaa gcgctcttcc aagctttcca 300
cttactctgg gcaagaggcc ttgcctggag ggaaagcgga ggagggggat ccggatgacg 360
gggacacttg aaaaagagag gcaatggagg agattgggtt ggatcctgaa ct 412

<210> 5866

<211> 166

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g03d1

<400> 5866

ataacataca aattcatata acaacagggtt gggactccag ttacattca gtaatttagt 60
gctacaagag gaaaccattc acttaatcaa acaaaatgat gaaccaatcc tcattcttcta 120
tcgcccctcc tgccatggac ctcaaagggg gggggggggg ggggga 166

<210> 5867

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075g04a1

<400> 5867

aatttctctc tgcttcattt cttttcattc tctaagggaa ttcaaactca acatagagt 60
caaccatgcc accctctctg gccacagggtg tcatcatgag ctcgaaactg caaggatcaa 120
aggatagctg ggtaatatg atgcaaacac tggatgacct caagtaggaa gggacactga 180
tcagtttctt gtagatattc aagaagcgac actgattatg ctcaagtga tcagaaaagg 240
agagacttgc acccggagga ttcaacttcg atgcgaaatt gcggagtga agcacagatg 300
ttgaagactt ggtcatagcc cacattgttg gaatggatac cctggcccga ggcctgaaga 360
aagctgcaa gttgattgag gaaggttctc ttgctgagct tgtgcgcaag cggatcaga 420
gttttgacac tgaaataggg gctcaaat 448

<210> 5868

<211> 244

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075g04d1

<400> 5868

aataacatac aaattcatat aacaacagggt tgggactcca gtttacatcc agtcatttag 60
tgctacaaga ggaaaccatt cacttaatca aacaaaatga tgaaccaatc tcattcttct 120
atcgcccctc ctgcatgga cctcaaaggg gggggggggg ggggggaata tncatatatac 180
gcaattcatt gatcctcaac taaaaatatt ttttttcaaa atgccaacct tgcctatatac 240
aacg 244

<210> 5869
 <211> 582
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075g05a1

 <400> 5869

gaanaaacgg cctgtgctcn gataccnttg nnnntttttt nnnnaanncc cnnnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnntnnnnn tnnttttttt tttttntttt tttttttttg 120
 gggttttttt tttttctttt tttttttttt tttttttttg ttttttatga ggacacataa 180
 acccggcggg gacattcggg ttgttcctag gacgcaagg gtcgttgata agggcggtgt 240
 tgtacatggg ggcacagtgt gccgggtgcta tctgtgttac tggattggcc aaggggttcc 300
 aaaaagcata ctacaacagg tatggagggtg gtgccaaactc tgttgctgat ggctacaaca 360
 atggtactgc tttgggtgct gagattattg gtaccttcgt tcttgtctac actgtcttct 420
 ctgccactga ccctaagagg aacgctaggg attcccatgt tcctgtactg gcgccacttc 480
 ctattggatt tgccgtgttc atggttcact tggctacaat cccaattact ggtactggca 540
 ttaaccagc aaggagtttc ggagcagctg taatctacaa cg 582

<210> 5870
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220075g05d1

 <400> 5870

gcacacaatg taaaatctat ggctgagctt aatttggaca cacatctcga tcatattcaa 60
 caaatcaaga ccaattctgc caaaatctaa aacaaacgga cactttacga aaaataatta 120
 ccgaaaaata atgtcatgtc agtgtgaaga ccaagtcttt ataaggattt cttgggcaga 180
 tggagacatc atgatgcatg caagcatcac tatgcgagag agaatccaac aaacctgaca 240
 cctagctttt tctatatctt tcattatcct cggggaatca tctctaaatc catcatcctt 300
 taacttggtc agattcacat cattgcagta aaccggcttc cttgagagca gctttatatt 360

cttaacactt tgtgctgcc ctcaattaca cgagtgccaa atggtctcga tctcgactga 420
gccttta 427

<210> 5871
<211> 446
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075g06d1

<400> 5871

gcatggaaaa aacatggcaa agcaactacc atcattcaat aagtaaagt tttacacaaa 60
tcaactcatg aacaatgtac ataactaatt cagccaaacg tcgtttcttg ccactggcac 120
agatccgacc aatcatatgc ttgtcttgaa ctactgcagc attttgcaat aaatctatta 180
gcagagaatc acaatgcaat tctttttttt ttcttccttt ttttgtttg gagatctgta 240
caaatactga gctgtcagga gaatatgggc ttcattcaca aaggttcttg gcttctgaaa 300
ttctataatt cgttcttgct tattagtggg ggggtgtgact gaaactacac caatgaggaa 360
caatgtagca attgagttga aatcataaag atcaccacac gattgtaact ctccaagagc 420
caaccagcc ttgacagtga cataag 446

<210> 5872
<211> 629
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075g07a1

<400> 5872

tggggaanacc tgcgcggtcg gtccganncc ntttnnnnnn tttnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt tntntnnntn 120
nnnnntntn tntttttttt ggggtttttt ttttgtttg tggcctatct ncttgtttga 180
taagaggttc acgaggaatt gaagaagcct tattgaaaca cttgggagtg aagcgcaatg 240
aagtaacacc agatggtttg ttttctgttg gagaaatgga atgcatggga tgctgtgtga 300
atgctcctat gattacagt gctgattatt caaatggatc agagggatat acttataatt 360
actttgaaga tgtaaccca gagaaagtag ttgagatagt agaaaagctg agaaaggggtg 420

agaagccacc gcacggcacc caaaatcccc gccgaattaa gagggggga 480
 aactactttt gtttaagttag cccaagcctc ctccctgccg tgacctggat tcctgctgaa 540
 gtgtgatata ctttttgcct tcaataatgt gaggttgca tgtgttgag cttgtcttaa 600
 ttgaaacatt gtcagattgt ttgatgctc 629

<210> 5873
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075g07d1

<400> 5873

ggtacatata actgtatatt gctgatttca ttctttcttt tcatgtaaag attcgtaata 60
 cacaagcctg cttcagaagt agcaggaagt ttggacaaaa gattcaaaaa ggaaaagtaa 120
 tacacaaagt gtgcaaaata tatttcaaaa gaaatacaaaa atctttaatc acattcgag 180
 ggtggagaga attctaggac agcctcagtg ccatttcatg aagaagagct cgcttttgtg 240
 aagcattaat tacattatgt gtttcagcat tctcaagcac ttcagcaatt attgcagatg 300
 cagggccaaag gggttcctca gccaccctct tcaacatgaa agcctggcca tgatgggtta 360
 tgtaattgt gcagggttgc tgaaaccaag gctctccatc aatttgaaca ggaaacatgg 420
 caacaattg tatcttaatt gactgtcctt gtgcaagtct tcgagctcga gaaagcccga 480
 ctgaaagttt ccgaggtgcc atgttcaga tatgtcaca acttcaagta tcttatcatg 540

<210> 5874
 <211> 145
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075g08a1

<400> 5874

agaagaacgt aaaaaaatag aaagaaaaag aataataaaa aaaaaaaaaa aaaatgataa 60
 aagtaaaaag gaaaaaaaaa aaaaaaaat aaataaaaaa aattaatatt ataataaaag 120
 annaaagaaa gaatcattag aagac 145

<210> 5875
 <211> 428
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220075g08d1

 <400> 5875

 acaccggttc taggaaatga gaagatatac atcggataca aacatctttc aaccaacaag 60
 tgacttttag cagtttttat ccatcagaac ttcttctacc aatcataaca ctgatcaatg 120
 attacagaag ccccaaactc tcgacaaaac acattgcaaa tatagttact tagttacaca 180
 cagcatacct gtgcagagca caaaggcaca tatectgtcc tacatgagac gctatacaat 240
 tgggttggtca gttaccatct ctaaaccaca cagtacgctt ttgcacaagc tcattgagaa 300
 aatcatcagg tttctcaagg gcgacatttg gcattaccac aacatgtgca acgtctgctt 360
 ggcacgcatg ctgccacttg tgcacaaacc cttcatcgtg aggcctctca aacacaacgg 420
 tgctgctg 428

<210> 5876
 <211> 571
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075g09a1

 <400> 5876

 aataataata atataatddd aatataataa aagtgaata tataaagtaa atatatgaat 60
 ataaataatt ttaaaatatt tatatcaa atataataat tataattaca ggantagggt 120
 gtagagttga aacacnnnnn nnttnnnann nccccnnnn nnnannnnntn nnnnnntnnc 180
 nacnncaact aancaaaaaca tttatdddta atttaaattt ataataagga agggaaatag 240
 aataaaagga aacataaaat ttaaggggat aaaatttaac cttttgttat tgcattgcat 300
 gaatacttgt ttaaatatgg gagagtataa ttaatgttag tagaaacctt taaaaaata 360
 tatacgcagt aaaaagaaaa aaggagtgc ttgaaaatga aggacattga tatttatagt 420
 agagtgtttc atatctcagg ttgatcagg gatgcctgcc gatgttactc cttataattg 480
 ctgatacttg agaaattdag ttaagagatg taagataacc ttaatttatg tagaaaataa 540

tgagatgaaa atatgaatac aacctttaac g

571

<210> 5877
<211> 427
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075g09d1

<400> 5877

aaagaaaatc tcaaactaat cgtcaattgg ttctattgat tggcaacctt ctcatatttc 60
ttacagatag taaaatttaa attgtaatct tacatggatg aatgccaaag aatatatagt 120
gatatttaaa aacaatctca taaataatat ttgaatgagg gattcaaaat ttaataggcc 180
agtactatac aaagctggat atatgcctcc tttatttggt ttgggcctta ctgcagtcca 240
tgttttccat gcgctctctc ttgagagcag tgaacttggc agctatgtca tcatagtctg 300
gcaacttagg atgaacatga ctaggatgtg gagaaggaca aaaatatgtc cttaacatct 360
tatctttggt ggttctgtgc ctctcttggg gcatggtcac ggcccttgaa taggaagctt 420
ctgtttc 427

<210> 5878
<211> 565
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075g10a1

<400> 5878

nctcccgctc gataccctng taaancccta atanaanann tntnnantga ggaanaaaaa 60
cccccnan acgtgncana aactatttct caaacganta cactctcttc ataactaata 120
atattcacc tttttttata tctaccta at caccacatca tccctcttat cggggggtat 180
ttactatcaa ctatttcctc taatattcaa ctactacaat cttcaattcc acttcgaaca 240
ctataaaaac acgatcactc acccaaata tgatcattga agacccccca actcttgaac 300
ttgcatgctc ttcttagaat actagaatat gaacatccac atggagatca taatcaaact 360
aactatcaac ttgaaatgac atggggataa ccctgtgacg gtcaagacat atctaccaca 420

atacaatcta aactggaaca cctcgcagac aaacaagcat aaatggatta tcaagatctc 480
 caacaagtcc atacactcta ccacccact gcacgaaaaa taacatacca tggaacattc 540
 tctatcgga ttctatacaa aacca 565

<210> 5879
 <211> 308
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075g10d1
 <400> 5879

ccttaagcga caatgactaa taggggtgag gagatgttga ccccgacga gcgtgccgcc 60
 cgagatgctc aggatttatt gatcgagcgc tgggaccag ttataaacca cgtataggcg 120
 gagatcaacg aagtctgtaa caaagaagaa agaatgacta tttgtgccgg agtacgtgtt 180
 gaaggctcta ggggtttctt gaatttggcg agtacattga ggaagtctat gcggcatttg 240
 aacaacacaa gggtggtagc aatgcatgac ttcttttaaa gggtaggaag tggggcaaca 300
 aatctgat 308

<210> 5880
 <211> 509
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075g11a1
 <400> 5880

cgcaaacact ccctctcctt tganacccn tnnnnntntt nnnnnnnnnn nccnnnnnnn 60
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntttttttt ttnnttnntt 120
 tnnttttttt ttttttggtg tttttttttt ttttttntt tntttttttt nttttttttt 180
 ttctntccc ttgcttcgtg ggtggaggag gcggctaacc cgataactaat ggtgtctggc 240
 gtggaggcgg aggtggttcg ggtgatcggc gaggccggc gtgcgttgaa gtttgctagg 300
 ttcgtgagca ggttcggtaa gagttaccaa agcgaggaaa agatgaagga gaggtacgag 360
 atattctcgc agaattctcag gttcatccgc tcccacaaca agaagcgttt gccctatact 420
 ctctctgtta atcattttgc tgattggact tgggaggagt tcaaaagaca cagactatga 480

gcttgccaaa attgctcttg cactcttaa

509

<210> 5881
<211> 465
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075g11d1

<400> 5881

gcaaagacaa tgctatctta taactgatat ttgaagcggg agcatcaata caatacaata 60
tgtaactatg aactatcaat atatgatcgt tattatgtct gtgatacaca caattaaggc 120
cataatatac ttatgtgatt tacaacaact tctagcttat tttatacatc atgccaaccc 180
aactaggagc aattttcatc atacaattac acttatcttt aatcatcatt catcaatact 240
ggcatcagca atacgctcta aactctgaag catgacaagg tggtagtcac cagggaccat 300
attgttatgc aatttatgcc acaattggat aagatgcaca agttgcaaca cacacatgtt 360
cttccccaat tccatcttga agtagccatt ttcaccccag ctttctcccc atgaattttt 420
tatgagccaa tatgggacac cattttcaac tccatatcca acagc 465

<210> 5882
<211> 529
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075g12a1

<400> 5882

tgtacctggc gtcgtcgata ccannnnnnn tttttnnngc accccccctt acccccnann 60
nnnnnntcng annancccn ncacccccctt aaattttttt ccaatctcct ttaaatttct 120
aataatgggg aaagacgttg agcaggtcac agagcaaggt gaatactccg cgaaggacta 180
ccatgaccct cctccggcac cgttgatcga ccagatgag ctcaaaagt ggtccttgta 240
cagagccgcc atagctgagt tcatagcaac actccttttt ctttacatca cagtgttgac 300
cattattggc tacaagagac agagtgcac caaaatcccc ggtaacaccg aatgtgacgg 360
cgttggcatt ttgggcatcg ctagggcctt cggcggcatg atcttcatcc ttgtttactg 420

cactgccgga atctgtgggg gacacatcaa ccctgccgtg acattcgggt tgttccttgg 480
acgcaaggtg tctttggtga gggcgatggt gtacatgata gcacagtgt 529

<210> 5883
<211> 335
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075g12d1

<400> 5883

gttgtggttg tttttttttt ttttattttg ttattgggga caagcccccc ccaatttttt 60
aaagggggac ccccgagaa taaacgccgg gaaaaaaaaa agttataaac aacagggggg 120
accaaattccc cttcgtcata aaaacctttt tatgaacaaa tttaaaaacc cacgggcttt 180
ggttttttccc ccaaaccac ggggtactggc aaaagccaaa agagggggggc tctgaaacaa 240
gactaggcgg aaaacacctt tttttattgg gggacccaag cccaccaca tttggtttag 300
ggggggggaga aacttcagct tttttgtttt taaaa 335

<210> 5884
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075h01a1

<400> 5884

atcgtttttg aagaacaagg gcatgtttgt aaaaacatac taatcaaatt aaacagcgaa 60
gaagagtttc aaatttattg cttcgaatct ccagcttcgt cagggaagga aaacagcata 120
acgtgaggtc tcgggggaac caaaaactga gaaattctga agccactagg ccttttataa 180
accaaactaa ggaagacggt ttagacagag tgtacttcaa gctaagaaaa tggaaagagg 240
ggttgtggct gagaacaaca acatcaacaa ctatgaatcc aaagcaactt ccaccatcac 300
cattaaaggc attctcagcc ttctaattga aagcattgat gatgagaatt gagatggagg 360
tggaagcaag aagagagtta tttctctagg tatgggagac ccaactctca ccacattggt 420
ccacacacc 429

<210> 5885

<211> 386
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075h01d1

<400> 5885

ccccccacac acccggggag gggggccccc ctttttggaa aaaaaccccc aaaaacaaaa 60
acccccccca aaaaaaaaaa aaaggggggg gggaaaaaaa cccccccccc ttaatttccc 120
ccgggaacaa aaaggggggc cccccccccc ccccataaa agaaaatttt tttcccgggg 180
aaaaccccc acttaaaacc ccccccccaa ttttttcata aggggaacag ggggcaaaaa 240
aaaaaaatat ttttaacccc caaccgaaa ccccccccaa aaaaatcccc ctttttaaac 300
ccccccaac aaaaaaaaaa aggggcccc cggggcaaaa aaaaaccac cccctgggg 360
ggacaccttt tttgagtaaa ccccc 386

<210> 5886
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075h02d1

<400> 5886

aagcttatat taataagtaa aggcgaataa tgtcttcttc aagaagcgcc ccagaagaaa 60
tcttatgtgt caaacctgag tacactctat caagcacacg gggatcagca cagaaaatag 120
ttggtttcta gttccccagc atcatcaatt aacaatttga catccccacg gcagaaacct 180
attgaagcac catgccatat gaatatctcc tcaatgacct tatcaaaaga atgtgcgagt 240
ggaaggtag atgtgtatc atccttctca gtcaattgtt catttacact ctccaacaat 300
cgcttaaccc cagctaagag agtaataata ctctcatttg atatcaacac tcccttgggg 360
tcaccgtag ttccactagt atacattatt gtacagatgt cactcctttt cttaatagga 420
agatcaaagc tctgagtttg acccactagt aaaaattcat cccatgaata 470

<210> 5887
<211> 528
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075h03d1

<400> 5887

gctctcgat ctttattagt attggatggt gattgactat gcaatagaca ttgctccatc 60
tgatgtaatt atttggtttt ttattcattt gcataaaaact cttttctttt agttctttta 120
aaaaagtaca ttcagaggaa tgtattaaga gattgaaatg ctcgatctat tttcattgaa 180
tccaaagcaa aatagaatat ctaaaaccaa acttgactag acaacaagaa tcagtagggc 240
tacttacact gttgtctttt gtcagcgttg ataccatacc actgctgaac ttgaattctc 300
tctttcatcc aattattgat tgccagatct gcgagacatt acaagtgata gtgtccagtt 360
ccacacgtgt gacaaaaaac ccatatgttg ttgctgctct acaaattttg tctcaacaac 420
ttcactgcct actaatcttt gcttttttcc ccacagcaa cctccttcga acaacaattt 480
tttcttttct aaaaggatca gtgaatcgaa tatcctccat gctacttt 528

<210> 5888

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075h04a1

<400> 5888

ataagagagc ccgtcatttt gaagttgatt tgtctgcttt ccggaaagta cttgagatcg 60
acaaagaacg gatgattgca agagttgagc ccctagtcaa catgggtcag atcagcaggg 120
tgactgtacc catgaatctt tcccttgctg tagttgcaga gcttgatgat ctaactgtcg 180
gaggtctcat taacggctat ggtatagaag gaagctccca caaatatggt ttgttcgctg 240
atactagtag aggcctatga aattattttg gctgatggca ctcttgggag agccacaaaa 300
gacaatgagt actctgatct atactatgcc attccgaggg ctccaggaac actcggcctt 360
cttgttgctg ctgagatcaa gcttataccc gntaaggagt acatgaagct aacctataaa 420
cctgttggtg gcaccctgca agatcttgc 449

<210> 5889

<211> 366

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220075h04d1

<400> 5889

atgaaaagtg attttcacat aacaaattaa agacattgga aacggcaaaa gagtttcagc 60
aaccgaggct atccgaagcc agatatccaa aattacaaaa ggcaaaacga taaatacggg 120
atgaatctgc cataaaattc tatcataaga agaatacaaaa ctcaaaagca gcactacccg 180
tgagaacaac tgctgcatat gtgggaaacg agatgcaata gaaggctact accatgagat 240
gaatcaaaag tcaaaattag acctactggt gagaacacac ttctgcatat gcactatgaa 300
ggagcgcttg ctatgcttat cgtaccttct tatcagtggg actgccgtac attgataggt 360
aggata 366

<210> 5890

<211> 528

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220075h05a1

<400> 5890

ggggnncccc catctccctt gaaaccctg nnnnnntttt nnnnnnnccc nnnnnnnnnn 60
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnt ttttttntnt tttntttttt ttttttttgg 120
ggtttttttt gtttttttct ttttttcttt tttttttttt tttttttgtg tattcaacaa 180
ctatggacct ggttctaaca ctagcaatag agtaacatgg cctgggttact ctctgttgaa 240
tgctactcaa gcttgggaact tcacagtcct taattttaca ttgggaaata cttggcttcc 300
tgacacagat ataccttaca ctgaaggact actaagatag acagctgaaa gcttaaattg 360
aaaaaaataa atttgattca ttatttggtt gatgtaatgt aactacatga ttttcctttt 420
aaaggaatag catccaaaag ggatgagagg cattgatggt cttatgaaaa ttcaagtctt 480
aataagaata tgtacaagtt tgcagaaata atatgcttta aagcaatt 528

<210> 5891

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h05d1

<400> 5891

gcagaaatag gccatgcaac gccactcttt attatatctg tcatcatatt tacatacaga 60
aatcaaggt gaactccaca caatattaat attttcactt tacagaaagt gcagtaatat 120
ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa ttacacact 180
actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240
ttgcaagctt aaaatgaagt caacatgacc atagttttca agataaacca cttccggtgt 300
ggatggcaat tccttgagt tgtgctggaa atcagttata tctgcaaag catcatttcc 360
accataggcc atccacagag gcaatgattt gggatgcca ctaagggtcga attttggtgg 420
attgaacttg ccgtactcta tcagattdtt tagctttcca taatcatact tggagtaagt 480
acctttgcgg atcatctgg 499

<210> 5892

<211> 535

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h06d1

<400> 5892

gcagaaatag gccatgcaac gccactcttt attatatctg tcatcatatt tacatacaga 60
aatcaaggt gaactccaca caatattaat attttcactt tacagaaagt gcagtaatat 120
ataaacacgt agaccattgt attgcatcca tcataccgga atgaaggaaa ttacacact 180
actaaatddd ccggatgact tgaaaaaact aatcataggg tcataaagat cttgttttgc 240
ttgcaagctt aaaatgaagt caacatgacc atagttttca agataaacca cttccggtgt 300
ggatggcaat tccttgagt tgtgctggaa atcagttata tctgcaaag catcatttcc 360
accataggcc atccacagag gcaatgattt gggatgcca ctaagggtcga attttggtgg 420
attgaacttg ccgtactcta tcagattdtt tagctttcca taatcatact tggagtaggt 480
acctctgcgg atcatctgga aaagggtgtt caagtttttg gaggatgatg ggtga 535

<210> 5893

<211> 695

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220075h07a1

<400> 5893

caaaaaaaaa acataaaaaa tataacataa aaaaacaaac aaaaaatata aaaaaacaaa 60
aataaaaaaac aaaataatcc aaaaataata agannnccgg gcgaaagtag aaaccaaann 120
annnttnnnn nnnccncccc ccnncccnnn nnnncncccc ccaaaaacaa aacaaacaac 180
ccattttcaa aacaaaaaaa aaccacaaac ggggagaatt caaattcttc accaccacca 240
tacaagtacc catcaccacc acccccagtt tacaataca agtctcctcc tcctcctgta 300
cattcaccac ctcccacagt ttacatctat gcatcccctc ctctccata tcactactag 360
gttattttctg aagaatataa gccataaaaa aacgttggtg atagcaggaa gaagcacttc 420
gcaattgcac aaggaaaaca acggaagcca agttaacgcg cattttgtca cataagaaaa 480
acgaagtgac aatccctttc ttcttcggat gtattgttca tgaattatta attactttgg 540
tactagacag ttgaatggca ctgcttatga ctctgtcggt gaatgatatc acatgaatgc 600
attttggaat gcaacctgct gaacatgcaa ggtggtgcga agccaatfff ataatgaata 660
aatcaaaata tatgctttgt ataantattg aaaaa 695

<210> 5894

<211> 454

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220075h07d1

<400> 5894

aataaaacga catggtattg gcaagaaaac gcgaaaacca cgaccacagg atactaacgc 60
acatgtacgt aacacttaaa aatacatata caaattaaca tgggcatgtc tgttgagatg 120
gacgtcacca caaatatagt aaacataaat taaataaaca tagtgacgag gatatacaga 180
ttattccaat ccaccatgta taagcaaatt aattaagaac acaattaaat gaagcatgtc 240
tctcgtagct caaatagctt ggccagaatt acaggtttga ggagctcctg aaagacccta 300
gagcctttgc tgcttgggcc ctcaacacgg actggttgta gaatgcagca agagcagcac 360
cgatgaaggg tccaaccag aagatccact ggtcatccca agccttctcg ttgttgaata 420

tgacagcagg cccaaggctt ctagctgggt tgat

454

<210> 5895
<211> 615
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220075h08a1

<400> 5895

gaaaacgccg tgtcgancca tnnntttnnn nnnnccnnnn nnnnnnnnnn nnnnnnnnnn 60
nnnnnnnnnn nnnnttttn ntnntttttt tttttttttt ttttgggggt tttttggttt 120
tgcctatgat aatactgttg gtggaggtga tgatgctttc aacaccttct tcagtgaac 180
tggggctgga aagcacgtgc ctctgcgat tttttagat ctgagccta ctgtgattga 240
tgaagttagg actgggacat accgccaaact atttcacct gagcagctca ttagcggaaa 300
ggaggatgct gcaaacaact ttgcccggtg cactataacc attggaaagg agattgttga 360
actttgcttg gatcgcatca gaaagcttgc tgacaactgc actggtctcc aaggttttct 420
ggttttcaat gctgtgggtg ggggcactgg ctctggtctt ggttcccttt tgctggaacg 480
tctttcagtg gactatggca agaagtccaa gctcggtttc actgtctatc cttcacccca 540
agatataacc tctgttggtg agccttaca cagtgtctc tccactcatt cccttcttga 600
gcacactgat gtggc 615

<210> 5896
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220075h08d1

<400> 5896

aataaaacta catggtattg gcaagaaaac gcgaaaacca cgaccacagg atactaacgc 60
acatgtacgt aacacttaaa aatacatata caaattaaca tgggcatgtc tgatgagatg 120
gacgtcacca cacatttagt gcacataaat taaataagca tcgtgacgag gatatacaga 180
ttattccgat ccaccatgta taagcaaatt aattaagaac acggttaaata gaagcatgtc 240

tcttgtttct tagatagctt ggccataatt acaggtttga ggagctcctg gaagacccta 300
tagcctttgc tgtagggcc ctcaacacgg actggtggta gaatgcaaca agagcaagac 360
cgatgaaggg tacaaccag aagatgcact ggtcatcca agccttctcg ttcgtgaata 420
tgacagcagg cccaaagctt ctagctgggt tg 452

<210> 5897.
<211> 286
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075h09a1

<400> 5897

acaaccacca aaatactaac aattaaaaaa aacaacacaa acaactacca taatcaaaca 60
aacaactatt accaaaaactt aacaccaacc cacaaccac ccaacaaaca ccttttnaca 120
atcccccccc ttttaaaaan ncnnaanann anaannaaaa aannaaanna anaaaaaaaa 180
aanaaaaaaa aaaaaaaaaa aaaaaaaaaa ttaaaaaaaaa aaaaaaaaaa anaanaaaag 240
ggggaaaaaa aaaaaaaaaa nnacaaaaaa aaaaaaaaaa aaaaca 286

<210> 5898
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075h09d1

<400> 5898

gagcatagaa tgcatataac tcggtgataa aacaaaggct ttgatgatca tcatataata 60
aaaaagtgat atgataaata tagttgggag tgacagccaa caggaacgga ggaagagatc 120
cgtgatctgg ctgatagaaa aaagacactt ttatactaaa aaaagacaga aggcaaggca 180
gtgaaaagag tttaccgtac agattctaata tctacacgag gtgaatatga aacagcagcc 240
cccttttaaa agtttttttt ttttttttta taaaaagtaa acgggctttt ttggtcgatc 300
gagacaaatc ttcacaataa ttttgcccca tggcgctcca ggtaagaatc acagttcgac 360
cgattcgatt cttcaccttt ttcccctaac aatcccacag aatcgctaaa catta 415

<210> 5899
 <211> 556
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220075h10a1

<400> 5899

ggaaaaactc ctctcgcttg tatccaacgn nnnnttttng ggnaaanccc nnnnnnnnnn 60
 nnnnnnnnnn nggntnnnnn tnnnnnnnnn nnnnnnnnnt tttttttnnn nnnnnnnnnn 120
 nnnnnnnnnn tntngggggg tttntttttt tatntttntt ttccttggtt tccctttggt 180
 ttttntctt tgatatnttg ataaaattta ctaggcccac cccagctgaa acaactgatg 240
 tagctaatgc aattcttgat ggaacacatt gtgtgatgct taatggtgaa agtgctgctg 300
 gggcataccc agaacttgct agaaaaatca tggctcgcat ttgcattgaa gcacaatcat 360
 cccttgacta tggtgccatc ttcaaagaga tgataaggct taccctattg cctatgagtc 420
 cattggagag ccttgcatca tctgctgtcc gcacagcaaa caaggccaaa gcaaaactca 480
 ttgtcgtgct gacacgtggc ggggtctacag ccaagttagt tgacaagtat aggccagcgg 540
 ttccaatatt gtcggt 556

<210> 5900
 <211> 531
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220075h10d1

<400> 5900

aatcattaag cttacaact ttattcaaaa aaataacaag cagcgtgtac aagagatcat 60
 tattaactta ctgtggcacc taatttctgt gtttaaaagt gtctatctga ttgtatcaag 120
 ctgacttcat gaaatagaga ttaacaatcc atttgctgca gtcacttctt aagcagcatt 180
 ttttgattca agtgttctgt gaataataat tgcactctac tttctataaa aacttcgatc 240
 aactaatgaa tccaacactt cgacacgtac agaagaaaga atatttttca tggagatccc 300
 tcatttccat ttgtgaggca tgatatcagg gtgaagtccc aaaacatgct ctggcataaa 360
 atcatggcgt gttagaatcc caacaactgg aggtctccct tggctctttg gaacaacaca 420

catgtgcctg agtccatgtt gtcggaaaag aatagcagct ttggctagt acattgtctc 480
accacagtgt aaggagatgc attagttatg ggatggagat caacatacat a 531

<210> 5901
<211> 626
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220075h11a1

<400> 5901

tgccnaact cctactactt tgtaaccccn ntnnnnnntn ttnnnnnnnn nnnnccccnn 60
nnnnnnnnnn ntnnnnnnnn nntnnnnnnt nnnnnntntnn ntnnnntnnn tttttttttt 120
ttntntntn nntttntttt nntttttttt ttgggggttt tttttnttn tttntttttt 180
ttttttttnn tttttttttt cctaatttac tcctcttggc atcttggtgt gtgtccctct 240
tttaagctat ttccttctct taacacaatt ggttggtgcca attgccatag tcaccaacca 300
attaacaaag gtatatatat catcatatca tcaccaaag aaaaatattg ggttggtttt 360
tcttggtgtg gtggctactt ttgtggtggc agccacagct ggtagctttt accaagactt 420
tgaaataacg tgggggtgtg agcgtgcca aatctatgag aatggaaacc ttctcacact 480
ctcccttgac agagcctctg gctctggctt tcgttccaaa aaagagtact tgttcggaaa 540
aattgacatg cagctcaagc ttgtgcctgg taactctgct ggaacagtaa ctgcctatta 600
tttatcttct ctggggccta ctcatg 626

<210> 5902
<211> 419
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220075h11d1

<400> 5902

cgaataataa aactccaaca attttattaa tgaaaatact ttacaatttc agcacatata 60
cactgccatg aatataattt tgcacgctat aattatcttt cgccacaaac aatggagtag 120
tgctcaacaa agcacaaacc aacaataata acagtttttag ttgcattaat ttacacaaga 180
aagtaaatta acgtaatagg caacacatgt gtgtcacgtt catgaggatc attttataat 240

gatatgcaac attgaattaa atatttctcat gcaatggagc attctggagg aaggccttga 300
 gggaaacgtc tgatatcagt gcaataattg taaatcatgt aattcttttg caccaacgga 360
 tctttgctg ccccgaggcg ttcagtgatt ggccagtgga gaagaagttt gggattgaa 419

<210> 5903
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220075h12d1
 <400> 5903

ttgagcattt tttttcttcg ttattttttt taccacagac ttcaataaac tggccggaag 60
 ctaacaccaa ctataggcca aatcaccaat aaatattatt tcccgttctt ttggcgtggt 120
 ggcacccac tgagcacatt ggcactcaca catagaagca gagagaggcc attggttggt 180
 tttagagatg ggaagcatgc acatagaaac cccagaaact tatagctgat ggtagcaaaa 240
 acttcgatga tgatggacga gctaaaagaa ctgggactag gatcactgca agtgctcata 300
 tgataacggc tgcgattggg tctggagtgc tatctgttgc atgggcactt gcacagatgg 360
 gttgggtagc tgggtctgca gcgctctttg acttctgttt gataacatac ttcacctaca 420
 ctcttctcga tgactgttac cgctcacctg accctgtaca tggcaagcga aactacacat 480
 attctgaggt tg 492

<210> 5904
 <211> 562
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076a02a1
 <400> 5904

ctccaccact attcccttca cccaatcac actttccgct attagttag aagatgagta 60
 cgctggatgc aacaagggct gaacttggtc ttottgtttt atatttggc aaggctgaag 120
 caagggacaa aatatgcagg gcaatacaat atgggtccaa atttttgagt aatggggaac 180
 ctgggtactgc tcagaatgta gacaaaacaa ccagcttggc acgaaaagtc ttccgtctct 240
 ttaagtttgt caatgacctt catgctttga taagtccaac accacagggg acaccctcc 300

ccctagctct gttgggaaag tccaagaatg ctctactctc cactttcttg tttcttgatc 360
aatttggtg gcttggcaga acaggcatct accagaataa agagcgcacc gaactaattg 420
gccggatata tctttactgt tggttgggat cctcggtgtg tgccaccttg gttgagcttg 480
gggagcttgg aagactctct gcataatga agaagttaga gaaagatctc aggaacaaga 540
attaatacga tgatgaagca ta 562

<210> 5905
<211> 543
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076a03a1

<400> 5905
gtcagcttca ctgcacagga tttatgtgat cgcaacatgg gagtttgttt gagcgcccaa 60
attaaagctg aaagcccata taacactggg ttcaattcaa agtatgtgag tacggatgga 120
aatgatttcg gcagcacaaa cgataagggtt tcagcaaact caattcctca aactcctcgg 180
agtgaggggt agatcttgcg gtcaccaat ttgaagagct ttcccttgtc agaacttaag 240
acggccacta gaaatttcg tccagatagc gtgtaggag aagggtggtt tggatcagtt 300
tttaaggggt ggatcgatga gaattcattg actgctacca aacctggcac tggcattgtt 360
attgctgata aaagacttaa tcaagatggc atccaaggct acaggagtg gttggctgaa 420
gtcaactatc ttggacagct ttctcattct catctaata gattgattgt gttttgcct 480
gaagatgaac attgccttct cgtctacgaa tttatgccac gtggaagctt ggaaaaccat 540
ttg 543

<210> 5906
<211> 505
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076a03d1

<400> 5906
gaatacagca caagccttta aaatgtacta ctatttggtg tgtttgatgt agaagtcaca 60
taaggcaact aggtgttaca aaatagacta gggaaccaca gcacccta atagacaaca 120

agaacaaaaa tgagctaatac agagctatca tacaaatata atgtacctgc cttcgcatct 180
 agtttagtag ttacaaacac ttaaaacaga actccgaaaa tattaattgg tggactagca 240
 atactgaata cattatgtga aataagatat gtacaatact agagtgcatt aggctaatag 300
 ctactgaggt gactgagttg gtggatgaga tcaccagcaa cagatgcatg atgataagtt 360
 tgcaatatca agtatagaga ggggatgcag aaggccgggg ataagctgtg ggagtctcca 420
 tagggctaata atcatcgga cttcttctac gaactcgaga tccattaaca gaaggatttt 480
 gatagcctct attcacatca gcaact 505

<210> 5907
 <211> 568
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076a04a1
 <400> 5907

cacaagacat tcattcttaa tttcttatcc ttataactaat gtcacgcaca gcagaagcac 60
 ccatccatgg ggatatctta gagggcatat tctcgacagt gccactcatc caccttgtgc 120
 cggcctctca cgtgtcaaat tcttgaagc gtgcggtctc ctctccctc gctcacgtca 180
 gacccatcaa gccatggctc atagtctca cccagagcct ccgccactcg cacgtgacaa 240
 ctctccacgc ctacgacccc cgctcgacg tgtggctcca aataaaaaac accgcacgtt 300
 cccacgttc ccccgtcga tctctccact cgacgtgtt ctacgcgctc accccatccg 360
 agttcagctt ctccctcgac gcgctgcacc tgaaatggca ctacgcgccc tccccgcgcg 420
 tgtggcgcac caatcccgtg gttgcgcgcg tgggatcgcg cgtggtggtg gctggcggcg 480
 cgtgcgagtt cgaggacgat ccgctcgcg tggagatgta cgacgtatat agccaagcct 540
 gggatgcgtg tcccttcatg ccggcgct 568

<210> 5908
 <211> 559
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076a05a1
 <400> 5908

caaaaccctc ttttttctct ctcttgcaaa acctaatttt catttcttcc ctcaaatttc 60
 aaaatgcgtg agatccttca catccagggt ggccaatgcg gcaaccagat cggcgccaag 120
 ttctgggagg tggtttgccg ggagcacggg atcgacccta ccggaaggta cgggtggggac 180
 tcggagttgc agctcgagag gatcaatgtc tactacaacg aggccagttg cggtcggttc 240
 gtgccgcgcg cggtttctcat ggacctcgaa ccgggcacca tggacagcgt ccggtccggg 300
 ccgtacgggc agatcttcag gcccgacaac tttgtgtttg ggcagtccgg ggcagggaac 360
 aactgggcca aggggcatta cactgagggt gcggaattga ttgattccgt tctcgatgtt 420
 gtgcgcaagg aggctgagaa ctgcgattgc ttgcaagggt ttcaagtgtg ccattccctt 480
 gggggaggaa cttggatcag gaatgggaac cttgtgattc taagatcagg gaagagtccc 540
 cagatagaat gatgcctac 559

<210> 5909
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076a05d1
 <400> 5909

cagttcaaat caggtgttca ttcacatgaa gctctggtta cttgtttcac ctgcaccact 60
 actcttgctg ttgcttttgg agccactaga agacgacgga ttagtatgcc aattcctttt 120
 tctttgattt atgaaccagt tatttatctg ctttaattgc agccctgttt cctgcaccaa 180
 ccttgccctg tctcttctg ttggatatgg ccatttagaa tgtgactgcc accaagcttt 240
 taaaaggga gttgtgtcgc ctggtagctt tcccgctctt ctctttcgta aaatttcttc 300
 tcttatgtcc acaatcttgt ccttgtaacc ctgttttaac tcatgcttca gctcctgcct 360
 cacacgtcc atcaaagatc tttcagtttc tgtgggaaca agaggaccaa agctgagact 420
 atcagctcca tccatgcttc cttcgaacaa gttggcatta ctctctgcct gatcttcttc 480
 atcgncggac attgttgca cgttcccttc accgggagat aca 523

<210> 5910
 <211> 507
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a06a1

<400> 5910

agaagaaaca ccctgtaccc ttcttacatc ttctaattta tttttctgag gactttttta 60
tttttatttc ttcgtttcca ccattttctg ttacgccaaa ctgcgtctgc gacgcgaatt 120
gtgatttagtg aacgggtgaat gttgaggatc tgctactttt tgaacattga ataaggctta 180
tcagacaagg atttgacaga atttgcaga atcaaattgt taattctctt ctgaagattt 240
cattcgttcg tttgcgatat ttgaagatac atttttctct cgaaaaatcg tcgaattcgg 300
aactctggac tctctgctag atcgtgcctg agtttgtact tgtagccgtg gttgcagatc 360
gaagctctga aatgtcggtta ttagttggag tttagaaata gattttcatt tttcaaagct 420
tcagaactga aaccagcgag cttgtgtggc gcgtcttaag gcttgggttt ttgacggaat 480
cggattagtt taggtaggat ggataag 507

<210> 5911

<211> 325

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a06d1

<400> 5911

aactgagata ataatggaat tatgaatggt cttggtacaa gcgaagaagt ctttagtgcg 60
attttcaaac cgaaattcta taataccata gtaagaacta agaagcaaca tgcaagttca 120
gaggtaggaa aagtaaagaa tgactgcttt cttctcaaata aagagtagcg aaatccaaac 180
acaaataagt tcatgtaaag agaatttcat tgggtacatga actttataat attaaacggg 240
gtaagaactc attgtgacct tgaatgaaat aaagaaaatg accttatgca tatttttgca 300
aataagaagc tatcgcttat tcaact 325

<210> 5912

<211> 480

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a07a1

<400> 5912

tgcagattgt actgtaatca cggttgccca cagaatacca actgtgatgg attgcactaa 60
ggttcttgcc attcgtgaag gagaattggt ggagtatgat gagccaatga acttgatgaa 120
gagagaagga tcaactgtttg gacaacttgt caaggaatat tgggtctcatt tgcagtctgc 180
tgaatcacat taaagctaga aatgtttcat ttttattgat gtcaatctag tccaaccctg 240
cccatagact aaacggattg gaaaagtaga ctacttttt caccaattga tttttcaaaa 300
tttcttgata tttttatttt cttattcttt gagtttggtt ttatgaatta atatgttgct 360
ggatttgctg tatttatata ttctttcttt tttaaattag ataaataaac tcaatcttgt 420
aacggtcgtt ttaattccct attaattggt attgttgatg acttacaatg gcttttgaac 480

<210> 5913

<211> 516

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a07d1

<400> 5913

caaacacaac agttcatctg ctaatttact cattaaattt gggccatttg acccctaaca 60
tcggttaaat aatgttataa cttacaaatg gatcaaatg aagcacgtag tgcttggtga 120
ttcctctaaa gtataatatg aatgcaattg acaggacttg aaactgccat gctatacaaa 180
taaccaattt ttcaaataag gaggaaatgt catccttaat attattttca catatacctg 240
ttcaacaaat tggccagaca tagtgtgaag ctttcttctt atgatatatg cttttgggta 300
acctgaattt ccaagcctct tgaatttatt ggaaaaaggg taaattatca gatgaaatcg 360
ggttgacctg ttgaagttaa gcaacgatgc cacattcgac tggtggggtc caccaaccta 420
ggatgggata tcacttcggg gatgggaaga gtaacatagc ggggtgtaca taaacctact 480
gtaatgccac tatatcctgc aaacgcacca tgaaca 516

<210> 5914

<211> 532

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a08a1

<400> 5914

gattcatagg cccaagagca aagaaactaa gaagattttg agcacaatgg catccacaca 60
atgcttcttg caccaccatg cctcaccac tccaaccaga gcttcatcac agcgcttagt 120
tgtgagcacc aaaccaaacc acattgtttg caaggcacia aagcaggttg tccaagaggg 180
tgaggacact actaacattg tctctcgag gttggccctc actgttctca ttggtgctgc 240
tgctgttggc tctaaggttg cacctgctga tgctgcctat ggagaagctg ccaatgtgtt 300
tggaagcca aagacaaaca ctgacttctt tccatacaat ggggatggat tcaaactctc 360
aattccctca aagtggaacc caagcaaaga ggttgagtag ccaggtcagg ttcttagata 420
tgaggacaat ttgactcaa ccagcaatgt tgctgtcatg gtcactgcaa ctgacaagaa 480
gtccatcact gactatgggt cacctgagga gttctatct caggtggatt ac 532

<210> 5915

<211> 497

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a08d1

<400> 5915

ccaacccctc tctttctttt ttcgggtctg acccctcatt tatgtttttt tccaaactaa 60
ataaacctga agcacaggat catccaaaga ggctcagaat catgccaaag aaatttcaaa 120
tttgccatga aatttcactt tccatcattc cattccaggc tactactctt ggcttctctc 180
gtcccgttcc cactgtacac taaccaatat tattattccc taaaaataaa ataaaaaaag 240
gaaaacagct tccttttttt tttttctctt cccttgatca tagttcttca taaacctcat 300
tttgtgaaaa cacttattag gtcataataa taataataat attaataatt acgaatccac 360
cctgctaate ccaattcttt ttaacgacac gttcctaaac ccttccatta tttccatacc 420
ctgaaaacac attatcccat tctgctgttc caagtaactc ctaacctact tccttatcat 480
ttcatgcatc accgtca 497

<210> 5916

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a09a1

<400> 5916

gttgccaggc atgccttagg agctgaagat atcattagtt ttccagatga caaattaaac 60
cggatgtggc aaccatacaa ggaccagaat cttgttgagg aaagccattc aaatgtgact 120
tcttcagact tttggaatca acctccagtg aaagcattca gttctgcaat gacaactagg 180
cgggggaaga cacttgagat tcagtggcct cctatgtccc ttcccagcac ctattactac 240
atctccctct attttcaaga caacagaaat ccaagccctt acagctggag aattttcgat 300
gtttctatta atggccacac cttcttttcc agcctcaatg ccacaactaa gggagtcact 360
gtttatgctg caaaatggcc actctcatgg cagacaaaaa ttacattgac ccct 414

<210> 5917

<211> 238

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a10a1

<400> 5917

ggatggagag acatagtgga agaaagacag ttcgtgttcg cgatcggaga ctttgaaacc 60
ctgcgttgac ccattcattc cttagcattca acaatgtctc cgttatcgaa gctctcgttg 120
ctgatactga tggagtccat ctctccgag agggcctcct ccgacgagag agtgagcgaa 180
ttgctctccc tgcaatccag atccaaatcg ggcagtatgc ggctgaacga ccaatccc 238

<210> 5918

<211> 338

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076a10d1

<400> 5918

aaaaaaaaa aaaatagggg ggtttttttt ttttttttaa aaaaaaaaaa cccttcctt 60
ttttgccccg ccccccccca aaaaaaaagg ggggtggttt caaaaccccc cccctttttt 120
tttttacctt cccttttttt aaaaaaagg gggggggttt ttttttcctt taaaaagggg 180
gtttcccggt ttaaaaaacc cccccacccc ttttttttac cccgggggaa aaaaaaaaaa 240

aaaagggggg gggaaatddd tttgtttttt tccggaaaaa aattdttttt tgcccaaaa 300
 aaaaaaaaa attggtttta aggggggccc gcctaaaa 338

<210> 5919
 <211> 401
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076a11a1

<400> 5919
 aattdttctt cagttdttct aaaaataattd ttcttttagtt ccttattaaa aaaaaagtac 60
 gctctgtttt ggaacttgct tgcatagatt ctatctgtct caatctctct ctttdttttt 120
 ttttdttttt ctttdttctg cttcatttcc aactgtctcg atcagctagg gtttgatcta 180
 ataatctcga tctcgcatac gcaaccgcaa ctgtattctt tatgcttgcc gttcataaccg 240
 ntgctggggg ttggaagttt gaagttagca aaaaatgatt aatagaagat gcttdttgaca 300
 aaaaataggg atgatgaatg ctttdtttgt tcaatatgtt ttttgagaga aagaggatga 360
 gtgttcatgt attaaccagc ttagaattgc ccatgtatga a 401

<210> 5920
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076a12a1
 <400> 5920

actcaaagtc ctactggggc tgtdttttcca tttctagctg tagtdtttaca tctatgaacg 60
 agactaaaaa agtaaaataa gtdtttttgag ttctctcatg tttgagtaca ctgccctctc 120
 tgggtccagtt gaaaatgagg atggggaaga tattcctgaa taagaagccg cctgcagaat 180
 tagttcgatt gaatagggag aaagttctga tacacttaaa aaggagtga gctagaaatg 240
 tgaacttgca ctggcacacc aagagagtgc agttaaattg tttagcatta aaggcaacag 300
 aacatgtgat gtgtgcaagc aagaagttca gaaccttctt gtcactcttc tacgagtttt 360
 aaatggccaa acactctact tgacaaggag tagaagccaa caatacaggg tgtggcaaaa 420
 tattccatt 430

<210> 5921
<211> 291
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076a12d1

<400> 5921

gttaagagcc ccctcgaaaa gaaagggaaa aaatccgagc tttcaaaaaa aaaaaaacac 60
ttttggatca accccctcag gaaaagggat ttatctaaaa gacctgcttt tcttgcccg 120
caaaacacac acagagggcc ccagagattt tgtgtctcag atacatgcat ctatgggtggg 180
gccctgagge tctcattgga gactttttcc aacacacaat tcttagaaat tctaatttgt 240
cacaccacct tttgcaacct attttgtcc tggaaggccc ttatagagac c 291

<210> 5922
<211> 422
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076b01a1

<400> 5922

ttcctttatt attattatta ttataaaata aattctttca tcctttattt tcctattttg 60
ttttgtgtgc tgccgatgga tcccaagggc tcaaagcagc aacagccaca ggaggtggta 120
ccataattgc tcaacctgcc gcaacatcaa taccaacaac aagggaattc caacaacaac 180
aacatgggag agaacaaacc atcagaggtt aaggatttcc agatagtggg agctgctgag 240
aaggacgaga gccagatgca gtaacagttg gcaccaaaga ggagtttcaa caatgacagg 300
cacaccaagg ttgacggcag gaggaggagg atcaggatga ctgctctctg tgctgtcaga 360
atctttcagt tgaccagaga attgggccac atatctgatg gggaaaccat tcaatggctc 420
ct 422

<210> 5923
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076b01d1

<400> 5923

ccacacaaag attaaaattt cccagatgat aaacgtacta aataccagat ccaatatgaa 60
atttgacaaa tatgattatg aaactatatc ttcaaattca caaaacaaac cgatctcagc 120
actccaccct gtctagaga agaacaaaat aatcaacaca cctctgaatt aaacaatagt 180
tttaaggcca gaccaaagca gccaaagccat ctggccatgc aattccacct gtatatggag 240
acttgagtac tggggagaag gaacaataag gggctaaacc aaatccagct ttctattgaa 300
ttctctgaga cacctttttc ttttctcac agtctcccaa ttatactaca atacaaaagc 360
cattgtagaa acctcagcca gcctctgcac aatgatgctt ctttcttttt tcttttcac 420
caaatccata ataaaactct actactgtcc tctgagcct tgagaatcat ccttagcagg 480
agtttgctga tgctgntgt gctgatgctg atgctgttga tgcac 525

<210> 5924

<211> 426

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076b02a1

<400> 5924

aagaaaatcc tcaattttct gagcagtttt acactctctc tctgtctctc aaaaattctt 60
agttcgcata gaaaatatga atcatgtaga ggcacgcgca tgtcgacgat caccttctgt 120
gtgacattga aggtgaccac ctactcacg ctgatcatc cggccaagac ggcagcgttt 180
gggctcagag ttccgactta cgtaagtcaa acctgaggag ataactgcca tcatgaatga 240
ctttaatgag cctgcacac ttgtccaac tggattgtat ctgggtggca ccaaatatat 300
ggtcatccaa agtgaacccg gttctgtcat tcgaggggaag aaaggctctg gtcgtgttac 360
tgggataaag accggtgccg tcttgatcat tggcatttat gatgaaccaa tgacttcagg 420
gcaatg 426

<210> 5925

<211> 516

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220076b02d1

<400> 5925

gataaatatg ccaaccatta taccatagca ttaaaaattt aaaaccagtg taatgtatac 60
aggtacccca ctaaaaaagt acaaagatag agattatagt catcatttct caagcatcaa 120
acacttttct cgcaacacgc agatcccgtg acttttcata ctacaagat tattacactg 180
caatcaaagc attccagtcc aggtcgtatg aaaaacttgt acagaagcca atgaaatatg 240
cacgataaca agacattaag caaagattag agaccctgtt caatgagata atcaccaagc 300
ctttcaacta ccatgttgca ttgacctgga gtcattgggt catcataaat gccaatgatc 360
aaggccgcac cgggtcttctt cacagtaaca ccaccaggac ctttcttccc tcgaatgaca 420
gcaccggggt caccctggat gaccatatat tnggtgccac cgagatacaa tccagttgga 480
gcaagtgatc caggctcatt aaagtcattc atgatg 516

<210> 5926
<211> 344
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076b03a1

<400> 5926

ggatgattat atcatggtca agggatgctg cgttgggtccc aagaaaaggg ttattacatg 60
gcgccaatcc ctcttaagc agacttctcg tgttgctctg gaggagatca agctcaagtt 120
tatcgacacc tcttcaaagt tcgggcatgg tcgcttccag accacacagg agaagcagaa 180
gttctttgga cgctcaaag cataattttg ttaattggat ggaaatgctg gatttctatt 240
cggttaccat atcttataaa catattgtag tgtttactgt tttgacatta tggatcctcg 300
agtagtgagt tatttcccc ctttaagttg ccaaactttt gttg 344

<210> 5927
<211> 326
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076b03d1

<400> 5927

aatgggggaa aaaacttact acttggggat ccataatgtc aaaacaaaaa acactacaat 60
atgttaataa aatatggtaa ccgaatacaa atccagcatt aacatccaat taacaaaatt 120
atgctttgag gcgtccaaag aactttctgt tctctgtgt ggcttgaag cgaccatgcc 180
caaactttta aaaggtgtcg ataaacttga gcttgatctc ctccaaagca acacgaaaag 240
tctgcttaag gagggattgg ctcaatgaaa taaccctttt cttgggacca acgcagcatc 300
ccttgaccat gatataatca tccctt 326

<210> 5928
<211> 477
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076b04a1
<400> 5928

ggaaaattaa accatcaaca acaacagaat aaaaaaaaag gagccaaccg aaatggcaaa 60
caaatacact gcgttgttgt tgggtggtgt ccttatagtc gttgcaagtg ttgatgccat 120
atccgatgcc aaaagaggat gcatagatga ttgccacgct aattcttgca cgctccaatc 180
gatgttgtgc aaaaactatt gttgttttgt ttgcttaacc gtcaaccgta gagaaacatc 240
agaggttcat actcttggtg atggagcatc aaggaaaatg aaagcgcaaa tgattaaaga 300
tcctaccgag ccaaagcact aaacacttgg aacataatta gttaattgag atgcagaaca 360
tggaatcga acgattatcc gaagcacggt tggcataatg cactgaagat taatatatat 420
aaggctctct caagaacaag gacaaaatat tgtattactt aattactatt tatacac 477

<210> 5929
<211> 506
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076b05a1
<400> 5929

attcttcact cctcctcctc cctctctttt ccaaacacac atcctcaacc atggcagcgg 60
catcttcaga gacaaagtca ccatacct cgaacacgca gttccgctg aaaccaatcc 120
caggcagcta cggaatgccg atttttggag caataagcga cagacacaac tacttctacc 180

accaaggacg cgacaagttc ttcgcgacga ggattgaaaa acacaactcc accgtgatcc 240
 gaaccaacat gcctccgggg cccttcacat cctcggaccc tcgtgtcgtc gcgttggttg 300
 acggtgcctc cttcccgatc ctcttcgaca acgacaaggt cgagaagctc aacgttctcg 360
 acggcacctt catgccttcc accaagttca ccggcggggt ccgcgtctgc gcctaccttg 420
 acaccaccga acccaaccat gcactcatta aacagttctt ccttaacgtc ctagccaagc 480
 gaaaagactt cttttgtccc tctggt 506

<210> 5930
 <211> 532
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076b06a1

 <400> 5930

ctactacat gaaaggcctt gttctcctgc tggctcattg tattggggca tgcttttcgt 60
 acaaagaaca ccctttaata accaagctga tgnactaaca tcacacttaa accagccact 120
 aatgcagttt taagcgctta attagtaggc tttggcctat ttcttgctct ttcttgagat 180
 gaagaatggt ggtatcgatc caaacccaaa atcagattca aattcaatgg attgggttatt 240
 gtttcattct gatcacattg tcatatccat aaagaagggg gggaaaaaaaa gttagcactt 300
 tgcagaagca ttgcaattat ttttaagttgc aatagctagc tgtagaaat gaaccactac 360
 tgtgaaagat gttgaatcat acgtacgtgt gttctatcag agaagctgct tttgatcttg 420
 tggtactacg gtagatgcca aatgagtgga aattgttctt gtttgaattt gctttagtaa 480
 gaatcccttt ttcaatttgc agaattctct gtatttaatg gtgtactata ta 532

<210> 5931
 <211> 473
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220076b07a1

 <400> 5931

ctcttgacat gatctccggt ggctccctcg tcggctccgt cgctccaag gtccaagga 60

tcggaatcct ccctcgtgat gctaaggatg agtcgatgat gaagtggttt gaggtgccgg 120
 gggttcaacat cattcacgcg ataaacgcgt gggaggagga cgagggaaga acggtggtgc 180
 tgggtggcgcc gaatattctt tcgatggagc acgcgctgga gagaatggag ctagttcacg 240
 cgatggtgga gaaggttcgg atcgagctgg acacagggat aatcacgcgg caaccggtgt 300
 cggcgcgga tctcgatttc gcagttataa accctgcgtt cgtggggaag aagaacaggt 360
 tcgtttacgc ggcggtgggg gacccaatgc cgaagatctc gggggtggtg aaactcgacg 420
 tgtcgaagg ggaagagcgg acggactgca cgggtgggtg catgatgtac ggc 473

<210> 5932
 <211> 322
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b09a1

<400> 5932

aagagggcca ccatagcccg cctcctctct gccgcaccg ataacgccat caagaatcac 60
 tggaactcaa cgcttaaacg caagtgcgcg tccttcatga ccggcgatga agcccccaa 120
 gatccgacgt gagcgagtc agcgtgctc ccggcgaggt ctctgtctct gtctctcctt 180
 cacaagagtt tcgccccgag ccggttcggc cggttgtcga aacggcgctg tctcaagacg 240
 acgccgatgc cgacgccgag gatgctggac ctactacctc gctggcgctg tctcttcccg 300
 gggaggagtc atcggaaatc tc 322

<210> 5933
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076b10a1

<400> 5933

ctcttattcct atcgcaggta gacctttcat ttttggggcc cttcattttc tctctctctc 60
 atgattatca gaggcaaaga cctttcattt ttgagaccct tcattttttt ttctctctct 120
 ctctctctcg tctctctctc gagctgagag tgaaatcctc aaggaggcat ttagctcttt 180
 taggatcaaa actctcgcat tcaatctcat agagagctac aaaatcaaaa ctgggttcat 240

ccacctccaa tttcaaacc ttccaatcct ttttcatgta caaatcctt ttgcaccctc 300
 ttcaaaaccc tagactccat tgacccaac tttgccggt cgcgaagca tttagagcct 360
 nctccagct ccaccataat tccccattcc caaaatttct cattctcctt ttctctctg 420
 aatccttgag cactctcacg cgctcctata ttcacctcct g 461

<210> 5934
 <211> 533
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076b10d1
 <400> 5934

atcaataaat caacaatttt catgtaataa agaaattata caagtgccat cattttacag 60
 aaaatgaaaa ataaatacaa atggtaattc cttgaaaaag aaaaaaaaaa agtcttacia 120
 ttatatcctg gttaattgtg ctaaggggaa taaaaaaaaa tccaaaactt gcacttgctt 180
 tgttgctctg atagcacatt gcttgacccc gcgcccctt cctgagtatt tacctgtggg 240
 gcgggtcaca gctgagacca ggtatcagca gcctgctgat aggatcgaca gaacatgagc 300
 atgagctcct gatttacaat tttttaagca agaacatgag ctcttgatag gatcaaatga 360
 gtacaagcaa cgtggcccgga caactttgtg ccagatgact gacaactgtt caccatggca 420
 atctactggg ggatgcttct gccttaaaga gcaaccagtt ggaaatgaaa aggaccatct 480
 ccttcctaata tttccattcc ctcaatccag tcatacttag atccacactg gga 533

<210> 5935
 <211> 334
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076b11a1
 <400> 5935

tgacttctag gagcccttat ttgggttctt agacaactgg ggtcaggaaa ggtggcccaa 60
 ctgccatttt gtaaaaggag aactcgcttt aatgttttga ctattaggaa ccttcctgt 120
 gaactctttc atggaggtat ggtgaacatc atatgtcatc atcactggtt tgatcgctat 180
 tatgatacca ttcttaaaag actggctttg cctgagaggg tcaactgactt tttggccatg 240

aacagattac ttcccatag agatggacat ttagcaatca aagataactta agatgtcctt 300
 ctcttggaca tggctgaaga tcttgagctg ggct 334

<210> 5936
 <211> 386
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b11d1

<400> 5936

gggaaaggggt tttaaaaaaa aacaggggggt gggaaaaaat tttgggcccc ccaaataaac 60
 aattttcccc agccgggccc aaaaaaaaaa ccaaaaaaaaaa aaagggggggg gggggggggg 120
 ggcaaaaacc ggggtggaaca aaaaccccc ttttttcggg gaaaaccctt ggtgtttttt 180
 tcccccttaa aaattttttg ggcttttcca aaaaccctt ggggggaccc cctttttccc 240
 ccgttttggg attaaaaaat ccccccaaat ggttaaggac cccccagggg gttggtttta 300
 ggggggttgta aaaaaaaaaa accttttatt ggggcaggaa ggcaagaccc cccctgggg 360
 aaaataaaaa aaaaaaaaaa gggggg 386

<210> 5937
 <211> 393
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076b12a1

<400> 5937

caaactaggt tttaataggt atagagcgtg ccaaggactc gttaattttg agcgттаagt 60
 gctgcaacta atcagatccc aagaccttgg cctaccttgc catacagaaa aaaaaaaagc 120
 aaaaaaaaag ccaaggttag gagccaacaa aaataaacac aaagcacaag tcatggaaag 180
 aataatggtt ggaagtgcaa caaaggttgc tttaccctc ttggccactt tcgccattgt 240
 cattccatgc cttgaagctg gcattgctga gtttgacgat tttctcaaag cccaagctga 300
 agaagcccat aaaattgctc tagattccta tgtcccagag ccccacgatg tcgcccata 360
 actcaatttc catgttcata tggcactgga aaa 393

<210> 5938
<211> 399
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c01a1

<400> 5938

gaaaaaacga cattcattca tctatggcta cccttattgc tcccagcaac cactctcccc 60
aagaagacgc tgaggctctc agaaaggctt ttgaaggatg ggggactgat gagaaaactg 120
tcatagtaat attgggtcat agaactgttt atcagaggca gcaaatacaga agagtctatg 180
aggaaatttt ccaggaggat cttgtgaaac gcctagagtc tgagatcaaa ggagactttg 240
agaaagccgt gtaccgatgg atactagaac ctgcagatcg tgatgctgtt ttggccaatg 300
ttgccatcaa gaatggcaaa aactacaatg tcattgtgga aatcgccact atcctcttcc 360
cggaagagct tttggccgtg agacgtgctt atctcaacc 399

<210> 5939
<211> 57
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c01d1

<400> 5939

atgggtacat ttatctcttt tttcttataa aaacaaaaga catactgaaa taacatt 57

<210> 5940
<211> 502
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c02a1

<400> 5940

gacgcgcgga ggatcatgga gggattgttg atcggaccac ggcttaagat ggtgggtgtg 60
catgacggat gacaaaggta cagttttttc cttgaattat gagttcaggt tcataggtct 120
acaactttgg ggattttgag gggtcgagtt tgtgggtaag gtggacagag gtcttcgata 180
ttgaatatgt gtctacctct gatttgagta tgggttctag cagcttttct tctaggagtt 240
cgacctcctt gtgcgaggac aatccgacat aacttgctat tgaggagaat ttggtggatt 300

tggggttagat atcgtgcaac gaaagagtga gtgggtgacgc accttttaat gataatgtga 360
 caatcatttg ttagccgaaa tgacaagtgc cagttaaaaa gaaagagtac tcgccgaata 420
 ctctactatg gtattcatgg gttgatgggtg aagtgggttc cttctatttc tgttacaacg 480
 atgaagtcaa tattcttacc tt 502

<210> 5941
 <211> 465
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220076c02d1
 <400> 5941

aacataaaaag attaaggaat ttcattaaga acaaggaaaag ggatacaatt gaatagttac 60
 atcataaacc atagactagg gtgactagtc gtcacatgac agagcacaac tcataatcct 120
 atatgaaata gacatagaca taccaataag gaagaaacaa tgatcatgat ttgtccttac 180
 gggggttgctt acacttcaca acttttataaa cctcacaag ttctcaaatt caaaactagg 240
 taaaaggtac taaagatata agatacgacc catatttata atttctcaa aagatgtcaa 300
 tcagaaaagg cacactatgt ccgtgatgaa atccattacg acatgggcaa aaagtcatga 360
 cgttgaagct ctgggcgttg tggattgact acggccctta tgagttgact acgaccatga 420
 tggaatttac cacgaccatt gtcagaaagt tgggtgtggt tggag 465

<210> 5942
 <211> 168
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220076c03d1
 <400> 5942

ggacctagtg ctgactccgt atngnanacg catattattg gcgaacctat ctgtcgcgcg 60
 cggcggcgcg ttaacgttga cgatgacgac ggtgatgggtg ccactgcccc ggccgagtg 120
 aatcgcggtg gctgtaaagg tcgagtaagg ccgcgtggga gagtaaaa 168

<210> 5943

<211> 440
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c04a1

<400> 5943

taggaaatTT tatgtagtgc aattgggTTT tTTaatagtc ctgaatatTT ggtggggTat 60
tgggcttctt tgaacaagtt gaagtttgat ttggggaatt taaggtttgg ggagaggTTT 120
atgttttttg atttgtcttg taagtgcgtg tttgggaagg ttcctaacag tgttgatggg 180
cttgagaagt tgaatgtttc ctataaccat gtttgtggtc agtcttccaa gaataagTTT 240
tcggcatgtg cttttgttgg aaatgattgt ctctgtggtt ttcctttgct caccctgcaa 300
catagcattt gtgtatttag ctttgttgct gatgatttca agtgtttaat ttcctttac 360
tgctgagttt tgcaactaat tatgtctttt aataagttaa ttgttatttt aactttaata 420
tttactatat atattaactt 440

<210> 5944
<211> 445
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c05a1

<400> 5944

tattaattgg atcctgcttt gtgagtttaa gggcttcgct tttgtttctt ctattccact 60
ggggctactg acgaatctct tatcttcttc tgcttcctaa atgtgagttc attcatttga 120
tgttgcaact tatagttttg ttttgtttga aattgaaata gtgaagtaaa atggagtctg 180
gagctggagg cctagtgtcg tcgtctgaga aagaaggagc ctcgatatacc tattgggtta 240
ggaaaataac ggaagatgca gcgcctttgc ctctgcctcg ttagctcaac ccagaagatc 300
ttcctccttc ccaatctcaa tcttccacgc ttgcttcaac ttggaatcgc gctgggacat 360
gggaggagaa aagtctaagc aattgggcaa ctctagaat taaggagttg cttttctcat 420
tagctccatt cagttctcct ttggc 445

<210> 5945
<211> 590
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c06a1

<400> 5945

ctcgagccga ttcggctcga ggcacgctca tcacacgaaa agcagatggt gggcctggct 60
tattgtgata gcaggagttt ttgttgact tatattcggc tacttggtgct gcatcatctg 120
gagaaaatgc aaaatagaag ctgacagaaa aaagaagcag aaggaactac tattagaaat 180
tggagtcagt tctgtggctt gcattgtgta tcacaaaaca taaagacaca gaaaacgtag 240
caaggccaac tatgaaatgc aaatathtag ctttccaatc attgctgctg caacaggcaa 300
cttttcagtt gcaaacaagt tagggcaggg tggttttgga ccagtttaca agggagtact 360
tcctgatgga caagaaatag caataaagag actttctagt agatcggggc aagggttggt 420
ggagtttaag aatgaagctg aactggtagc aaaattgcag cataactaact ttggttaagct 480
ttcggggctt tgcatacaaa atgaagaaac atattaatct acgagtactt gccaacaaaa 540
gtttagactt tcatttcttg attctaaaga atggaaaata gtttgagaa 590

<210> 5946

<211> 604

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220076c07a1

<400> 5946

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tcttcggttt caacgttcaa ccgcgatctc aaaaaacaaa actatggcat cactctcagg 120
catttgctcc tcttccccga ctctcaaaaa attcccaaac caatccccat cgttgaccga 180
ccctctccgc aaagaccacg tgtccttccc cgcacgcctc gccgatcgga ccctcagcct 240
cgcgccgctc cgtgcggtgg ctccggaggt ttccgacgga gcgttggcgg cggcggtgaa 300
gaaggggttg gagaaggatc cgcgcgcgct gtggcggaga tacgtgggtt ggctatacca 360
gcacaaggaa cttgggattt acttgatgt gagtcgggtc gggttcagtg atgagttcgt 420
taaggagatg gaaccccggt tccaagcggc gtttccggcg atggaggagt tggagaatgg 480
cgcgatcgct aatcccgatg aaagtcgcat tgtgggacac tatnggctga aggaccctaa 540

cgtgcgcccc actcgttcct taaactcaga atgagacact ctgcacgctg ttgcaagttc 600
gcta 604

<210> 5947
<211> 199
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220076c07d1

<400> 5947

cgggcaactc ttgtcgtacg ctgcggtata gcr.anagcag ccatttaagt gggaagccct 60
acaacggcct accgcctact taacaaacta agcaatatta ttatatcgct ctttattttct 120
cgccccaaagc cgactgccct aatcgaggcg aggttactgt tcaactctga caccggcggc 180
atagagatcc actgtataa 199

<210> 5948
<211> 472
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076c08a1

<400> 5948

cacaaacccg tccctcacac tctccatacc ctagcggcac tacacactag ttctatcgct 60
atctcccaa gatgtcgagc gccgatcccg agcacagaga agaggaggag gcacccgccg 120
ttggcgacga cgaggacacc ggagctcagc tcgctccaat cgtcaagctc gaggaggttg 180
ctgtcaccac cggcgaggag gacgaagatg caatcctgga tctcaaactg aagctttacc 240
ggttcgacaa ggacgggaac cagtggaagg agcgtggcgc cggcactgtg aagttcctga 300
agcataaggc ttccggcaag gttaggcttc tcatgaggca atccaagacg ctcaagatct 360
gcgctaata tctcattttg cctacgatga gtgtgcaaga gcacgctggg aacgagaaat 420
cctgcgtttg gcatgctagg gattttgctg atggtgaact caaggacgag ct 472

<210> 5949
<211> 372
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c09a1

<400> 5949

attaggattt cagaacatcg cttcatatgt ctgaacaatt tacatatatt aagcctctca 60
cattctatac aggtagctgc attatgctac tctagccatt cttagagcaa tagctgcttc 120
atctccatca aaggacaagg aaaacgtctc catcaaaagc attacacttt tctcaacctt 180
cagttggaca agctgccttg aaggactctg ccaatagaaa cgggaggctg caatattcga 240
cgagctactg cgttcgaaaa gatgtggccg cacagatcct atccgctgcc gattgtcacc 300
actatgatgc ccagactccg ccagggcctt gggaaaagga gactgacaac ctcatctttg 360
agaaaacatg ag 372

<210> 5950

<211> 519

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c09d1

<400> 5950

aaaaaagaaa caccaatcat cgggcattta gttggattga acatttagag ctttaaaata 60
atagcagttt catattgtct tccctacaaa caacagggtta cataaaaacg gaaacaaaca 120
gaaccagttt tatagaacag taatggaaac tagatctagc cggaacagaa ccatcccctc 180
aaaagagaca atcaaccggc aacaggaagt tgcggcatgt tatacatctt caagccaccg 240
caatacatta ccaagttcaa aatcacatat catgttggcc ataactctcc tctctctctt 300
cctctcata ctcatctca tcagcagtgg catcctggta ctgttgatac tctgacacaa 360
gatcgttcat gttgctctca gcctcagtga actccatctc gtccatgcct tccccggtat 420
accaatgcaa gaaggccttc ctctgaaca tagcagtga ttgctcactc actctacgga 480
acatctcctg aatggaggta gagttgccaa tgaatgttg 519

<210> 5951

<211> 361

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c10a1

<400> 5951

ctctctctta atttttctcc ataggctctt cttctagaca actgtgaagg cattttactc 60
tcttaggact cacacaaatc agagcctgct cctttcctca ccaaaacata ccaactggtg 120
gatgatcccg ccacagatca cattgtgtct agggggcgaag acaacaccac cttcgccgct 180
aggcgtcctc ctgagttgga aagagacctt gttcctaact acttgaaaca caacaacttc 240
tcaagctgag ttcgccagct caacacctat ggggtctagaa agatagagcc agaccgatgg 300
gaggctgcca acgaattctt ccagaaagga gagaaacact tgctgtgcca gatccataaa 360
a 361

<210> 5952

<211> 320

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220076c10d1

<400> 5952

cttcttgggg acggttaaaa tgaaatcaag gggttattct aaaatctaag atttttgata 60
gtacatcttt tggaggaaac caatgaaact tactgagtga cattcttgaa gtaggaattt 120
gaattccaag ggcctggacc cttttccttt cttagtacat ataaaaacct acctactctt 180
gaaatccaca attgggggttg aatagtataa tgagcccatg tttagggcaa aaatacatta 240
aatgtcaaaa tcaaggcttt ttacatagt taaacccga ggaagcttga atttaggatt 300
ttgctccaag aaagccggag 320

<210> 5953

<211> 437

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220076c11a1

<400> 5953

agaaaagtta ggggttcacaa cttttccttt tccttttgcg tgcgaatctg aatcaaataa 60
tcaatcatcc attcattatt catcatgtcg tcggcgaaga aaatcacgct gaagagttcg 120

gacggcgagg ctttcgagga ggaggaggcg gagggcgctgg agtcgcagac gataaagcac 180
atgatcgagg acgactgcgc cgacagcggc atccctctgc cgaacgtgac gagcaagatc 240
ctggcgagg ttatcgagta ctgcaagaag cacgtcgagg ccgcgaatcc cgaagacaaa 300
ccctncgagg acgatctcaa ggcttgggac gctgaattcg tcaaggtcga ccaggccacg 360
ctcttcgac tcactctggc tgctaactac tagaacatca agagcctgct ggaccttaca 420
tgtcaaactg tagccga 437

<210> 5954
<211> 471
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220076c12a1

<400> 5954
gcaagttaga gatctctaaa gaaggaaaag ctgccgagac actctacaaa tttatgagac 60
ctgaagacat tcctgttcag tatggaggac tgaatcgcc cagagatttg cagaaaggtc 120
ccccaaaacc tgcactcgag ttcacaatca aaggaggaga gaaagagaac atacaaatag 180
aaggaataga ggctggtgca actatcacat gggacattgt agagggaggg agggacttgg 240
aatacagagc tgagtttgtg ccaaagtctg aaggaagcta caccatagct gnagagaagc 300
caatgaaaat gggggcatca gaagaagcaa tccacaactc attcacatca aaagaatctg 360
gcaaaatggt actctcggct gacaacactg cctcaaagaa gaaaaagggtt gctgcatatc 420
gctacgttgt ccagaaaagc agcaccattt gagaatggct attattaaat a 471

<210> 5955
<211> 476
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076d01a1

<400> 5955
gaaaaaaaaa aaacgcagca cacaagttaa aaccttctca aactctttcg tcacagcgt 60
caaaacgcgt ccattggatc catcaacgca cgccaaaaat ctcgtctttt tgcgtttccg 120

ttggtggggtt ttcgttttcc tcagtgttct tcagcgatct tcttctgggt ctgtgaaaag 180
 ctcggtgctt tgtttcggaa gcaccgacat tgggtaacag tgtgatgggtg aaatcggaga 240
 ttgagaagaa gggttgcagc acaagacaat ggctttggct ggtgatggct ctcgtcgctg 300
 tttttgttgc catggccatg tctttcaaaa cctctccaaa agctctgttt ggagccattg 360
 atagagcttg tccgtgtgct cggggcacac cgaagtacag tggcatgggtg gaggattgtt 420
 gttgtgatta tgaaactgtg gatcgtttta atgaagaagt gttgcaccct ttcctt 476

<210> 5956
 <211> 569
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076d01d1

<400> 5956
 cccaagtaaa atatattctt tattacgctg gtaatttttt acttggggtt atttttaatt 60
 ttgagacatt ctacgtacat tagtttcaca tccctcagaa aatttccaaa ccacgacagt 120
 ggtttttcta tgtctagtct ctctagtaat ctgaatcatt aaaaacagaa ctgtaaccaa 180
 ttatagcttg cagattgcaa acatgtaata ctcagtttgg tacaacaaac gggaaatatg 240
 acaaatactc agaagagagc atgttaccta agtttttagat acataggacc aaattttttt 300
 ccatgagcta atcagtgttc ttgtatgagc agaaaaatgt cctccttcca tgattctttc 360
 agctgtaggt ccacttcgt ggacgaattt gacggattcc gagagtcgat taagaagggt 420
 cgtcaatgca attacctcat tcctttgcag ctgcagtgtg tgactcgagt tttcttgacc 480
 atcaacagag aagagaatct ttaatgcagt tccaagacca agaacctgaa gcttacccea 540
 ttatcgacat ttctcacatc ctacacaat 569

<210> 5957
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076d02a1

<400> 5957
 gaaaaaaaaa aaacgcagca cacaagttaa aacctttctca aactctttcg tcatcagcgt 60

gaaaacgcgt ccattggatc catcaacgca cgccaaaaat ctctgtctttt tgcgttttccg 120
 ttgggtgggtt ttcgtttttcc tcagtgttct tcagcgatct tcttctgggt ctgtgaaaag 180
 ctcggtgctt tgtttcggaa gcaccgacat tgggtaacag tgtgatgggtg aaatcggaga 240
 ttgataagaa ggggttgcagt acaagacaat ggctttggct ggtgatggct ctctgtcgctg 300
 tttttgttgc catggccatg tctttcaaaa ctttttcaaa agctctgttt ggagccattg 360
 atagagcttg ctcggttgct cggggcacac cgaagtacag tggcttgggtg gaggattgtt 420
 gttgtgatta ttatactgtg gatcgactta atgaaaaggg ttgcaccctt tccttcatga 480
 gcttgtgaag acccctttct ttcgaaattt taagggtgtg ttatgggtgtg act 533

<210> 5958
 <211> 545
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076d03a1
 <400> 5958

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 cattttctct cccaaatac actctcaatt acaataacac acactcaact tgagaatttt 120
 ccccaaaaat cccaagagct cgcgccatgg tttccccgga aaacagcaat tggctgttcg 180
 attaccggtt gatcgacgac gacgttatct ccgtcggcga ctctccttc gccgtctccg 240
 cttccacctt ctctggccc ccacctcccg ccaatgtcag tgtcgaaatt gatgcttcgc 300
 ttggggattc tgatggccta aaaaatcctg ctttgaagaa aaggactaaa tctgattcaa 360
 gtactgcttc tagctccaaa gcgtgtcggg agaagttgag gagggatagg cttaatgaca 420
 agtttgttga attgggcttc atcttggagc cggggaggcc tcccaaaaca gacaaagctt 480
 acattctgat tgatgctgtc cgaatggtga cacagcttgg ggatgaagcc ctgaatttga 540
 agact 545

<210> 5959
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076d04a1

<400> 5959

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gcaatcgta cgggctcgtc ccgcggaatc ggccgagaaa tcgcgcttca cctcgctca 120
ctcggcgcg cactcgtcgt caactacacc tgcaactcgg cccaagccga ctcagtcgcg 180
ggcgagatca acgcccgttc cgccaccacg acaccgcgcg ccgtcgtggt ccaagccgac 240
gtgtccgatc cggctcaggt gaagtcgctc ttcgactcgg ccgagcgcg cttcgactcg 300
ccgatccaca tgcttgtcaa ctcggcgggc gtgatcgacg gcacgtatcc ctccgctcgcc 360
gacaccaccg tggagtcctt cgaccgcact ctcgcggtga acgcgctgg cgccttcgcg 420
tgcg 424

<210> 5960

<211> 492

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076d04d1

<400> 5960

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acgccctttt tggcttcgag atctcaaatt ttttttccaa acaacaagtc gctgagcttg 120
ggctgggatt attattgtca ttattttggt tctgcctttg gggtatatca aaaacagtaa 180
caaccattaa agccgttgtg aagacagcca gacatgctta ttaacattta catgcaaata 240
ccagccatta cttcataata gtatcctatg ccaaatacag tcaaagccac cactgaatcc 300
agttacttgg aacacttaga agataataac taaaaagcta taggaaaatg attacaactt 360
ttgagccaaa atggaagccc aaataattgt acaatgccaa cttagcaac cgggtggacgg 420
agtacatgat cctgtgaggt atccacggcg ggcggaggca taaattgcc aatggcaact 480
cccggatagc tg 492

<210> 5961

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d05a1

<400> 5961

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tctccgacaa tctcctcgtg cggcgaggat cctcgccctc ggtctcaaac ttgtaccaac 120
agcaacaaca cacaccaaag ctaacgcaac aaaacaagat atcttcactc atacgctcgt 180
tcttgaacat cttcacgttc ccaacaatga tcccaacatg caagtggctc acgattccgt 240
cgcagctctc cgtgactcct tcccttggcc gaaaagtcac cggaaccctc ttcgggcacc 300
gtcctggaca catctctttc gccgtgcagc tccacccccg cgccgatccc gtccctctac 360
tcgagctcgc catgtccacc tactcgctcg tcaaggagat gtccctctggc cttgtgcgca 420
tcgcgcttga gagccagaaa ctgtctgcct ccactattac gcgtacaatg cgtagcaata 480
gtggcagaca gcaacagtg 499

<210> 5962

<211> 536

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d06a1

<400> 5962

aagcattcca tagcctccca taaaaattaa gaatactatc ttctctgctc tctttctact 60
ttgtgccttc accacctcat acctaccttc aaccaccgcg gtggtcgata ccgacgggtga 120
tattcttcag aatcctggca catactttat cttgtccgtt tttcgaccog gcggtggagt 180
agaattcgcc gccactggaa acgaaacttg ccctctcact gtcgtgcaga ctctcttcgg 240
gaggggcttt ccagcaatat tategtcccg ggtacgaatc cctttcatcg gcgaaggaca 300
actcttcagc atcctgttcc gtattgtgcc atggtgcgcc accactcctt ctaagtggac 360
cattgtggag gggttaccag aatcaccgcg ggttaaaactc actgggtacg acaacacagt 420
gcctggcgag tttaaaattg agaaagctta cccttttcat acgactatac ccttttggtc 480
tgccagctgg cgaataaagc aatgtgggca tattgggatt atttcgatga tgatgg 536

<210> 5963

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d07a1

<400> 5963

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tacggggcgc gtggcacggc gccaaaatcg tcgacttggg cggcgtttga tgattacggg 180
agggtccatca gtttccccctc gcagaaggaa tcttcttctg tggggggtaa gattgtgaaa 240
gcggtgcccc aggctgatac acaacaagat gtcaaagggtg gcggcgtgca aaagtctcgt 300
gtcaagctgt tggccgaaag tgggggtcag agcactatgg atgttctctg tcagattggt 360
ttggatggaa ttcgatatgt ggatccaaat accagccgga cattgagaat ttattctctt 420
gagaacataa caagatgtga tagaatcgat tcactacct tgcattttgg tcaaagagtc 480
ctgttgacat 490

<210> 5964

<211> 322

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d07d1

<400> 5964

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tttacaaggg caacaatggt tgttttggaa aaaaaaaaaa attatcctaa cggacaagaa 120
atttttgggc atgcatgcat gggggcatgc tttttaacct tttaaaaaaa gggggggaga 180
aaaaaaaaac ccaccgcccc cacaattaag ggtaaccaat ttgggtaaaa agggctacca 240
actttgcagt ttagggcccc ggaatttcgg ggcaatctac tagcgggggg tccctttctt 300
gggtttaaga agagaccctt tt 322

<210> 5965

<211> 580

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076d08a1

<400> 5965

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 cggggcgccg acgtggctga acaacagcac cgcggcgacg ctccgccagc agaatttcct 180
 ccacctgcag ccggaatccg ccgcaacgac gcagcaaac gacgacgttc gcggcgccgg 240
 cggcagcggc atggatcgga accggaccga gagcaactct gaaccggatg atttggcaga 300
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 atgcctgaga atcgccaccc ccgttgacca gcttccaagg atcgacgcgc agcttcagca 420
 gtcgcagcgc gtcgtcgaca agtactccgg catcggaac ggaaacggcg tcgtcgacga 480
 caaagagctt gatcaattca tgacgcatta tgttatactg ctctgtgctt tcaaagacaa 540
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<210> 5966
 <211> 61
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076d09a1
 <400> 5966

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 g 61

<210> 5967
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076d10a1
 <400> 5967

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 gccgggtctt tcatagatct ggagcgtagt ggctcagatc tacgggaccg aggtactaca 180
 gagaatcgat gactagatcg cagatccgac ggtagatcct gccgattccg cttgttcgat 240

cgctacagac ccctgtatcg gatcattaag cagcgtgtct cgcgcgttct acacgtgttg 300
ccgatctcgg atgttgaaaa ttagtttatg atgtgaagct atgga 345

<210> 5968
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220076d12a1

<400> 5968

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ttggaggaag aagatcctgg ttggtattca agagcatcta actctgtag agaacctgtc 120
atagatgtgc aaatgaataa ttccaaatgt tgaaccagta attgagaaag ggaactctta 180
tccagagaca aagactatct ccacccaaaa tggaagtga gttggaacac aggataaaga 240
tattggagag gaaggctttg gttcagntga agtatatgat caatggattg cacctccagt 300
atctggagga aatccaaaag cccgatatga gcatggagct gcagttgagc aagataaact 360
gnacatatat ggnggaaatc acaatggncg ataccttaat gatct 405

<210> 5969
<211> 507
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076e01a1

<400> 5969

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actcctgagg aagcaactcg agctcttggt gagatgaatg gtaaaatggt tgctggaaaa 120
cctctgtatg ttgcccttgc acagagaaaa gaagagagaa gagcaagggt acaggcacia 180
ttttcacaga tgaggcctgt tgcaataacg ctttctgttg cgcctctctac 240
cctcctgggt ctctctgtct tggacaacaa tttttgtatg ggcaaggacc cccagccatg 300
atgcctccac aagctggatt tggttaccag cagcaactag ttccgggaat gagacctggt 360
gggtgtccca tgccaagctt ctttgttccc atgggtcagc agggccaaca agggcagcgc 420
ccagtgggcc gtcgaggaac aggtcctgtg caacaacccc agcagccaat gccaatgatg 480

cagcagcaga tgctttcagg ggacgtg

507

<210> 5970
<211> 561
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076e01d1

<400> 5970

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gcataatctaa taaatccaac aggttatgct aatcctacag caatccagat acgaaaaagg 120
tgaaacccaaa acaaccaaga acataaaactt ccttagtact ctgactaaaa caaaacatct 180
aagacacctg caaataaaact ggtgggtagc gtacgggata gaaataactg gtgtacagat 240
tcttgtcaaa tgactaacgg aatctaagac acaagattgt cattgagaga gaggtaggct 300
agttgatcag ctgggttggt ttgctgttga gcaacatttc tcaacacatc catggcttca 360
gcaacttttg ccttcagagc atctggtgac tcaatcagat gtaaaacttc aggctgggtcc 420
atctccagaa gcatgcctgt aacctttgca gcagaatcat gttccagctg atccacaagt 480
gggtataaag cttcaccgag catagtcctt tgctgttctg gtggagcatt tgcgagggct 540
gtagccaaag cttgaatggg c 561

<210> 5971
<211> 615
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076e02a1

<400> 5971

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cgcttttctt ctctttcctt agttttcaga ttctgaaatc ttagtttctg cccgaaactg 120
aaactgaatc gaaattcaat acaatgagtt cctcaactac agtgaggaag ttgcagggtg 180
tgtccctgt tcctgcggac atagacattg caaactccgt tgaaccggtt catatctccc 240
agattgcaa agacctcaac cttagtccca atcactatga cctttacggt aaatacaagg 300
ctaaggtttt gttgtcgggt cttgatgagc ttcaaggatc agaagatggg tattatgttg 360

tggtcggagg cattactccg actcctctcg gggaaggcaa atctactact acagtggggc 420
 tctgtcaagc tttatgtgct tttcttgata aaaaggtagt cacctgcctt cgtcaaccat 480
 cgcaaggacc tacttttggg attaaaggag gtgcaactgg tgggtggctat agccaattat 540
 tcccatggat gaattcaatc ttatctaaca ggagatattc atgccatact gcagcaacaa 600
 ttttagctgc tgaat 615

<210> 5972
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e03a1

<400> 5972

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 ccatgcaaac ccaccaaacg tagcatacca aaaggccatt atgtttccaa agtgtcatgc 180
 aacagtcacc aaaacacctc aacatcaaac ccataagaag acaaaccatc gtcatacaac 240
 attctaggaa aacatcggag ggatgttctc cttggcattg gaggccttta ctgtgcttct 300
 gctcttagca acaccaacc tttagccatg gctgcagctt ctattctcga gcctgacctc 360
 gaacattggt gtataactga tgatgtacca cctaaagggg tcatcgatgc acaagtctat 420
 cgctgcccac cacaatcctt cgtccctccc tatagattcc aagttgccta aaggaacacc 480

<210> 5973
 <211> 524
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e03d1

<400> 5973

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 ctaatttttg cagcaatagc ttgcaatcat aattcccacg tgatacagaa ataatgggat 120
 tggatatagg tgccaattaa ttacttctcg tcccattaga cactatgatt gtattaaagc 180
 ctcttcagtc acgtacaaaa cctgtcgaat ttgcaatggc ttgtgctcat tctcacggat 240

gaatctctag agccatttgt tctactttca cttcgctttg ctttaaatta gtgtttggtg 300
 acttattctc aaaatctgac tcaattatac gcagttttgg gagtttcttt gttgatggag 360
 gaagtgggcc ttcaaagttg ttcttctcca aatgcaatgt ttctaactcc ttcagtcac 420
 tcaaatctgg gatagtgcct gagagtttgt tttccccaag ccacaaatgc tctagtgcac 480
 ttagacggcc aagagttgag gaagtgaccc tgacactcag catt 524

<210> 5974
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076e04a1

<400> 5974

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 ggtggataag tctgcatgga tgactgatga agaatttgct agagaaacga ttgctgggtg 120
 aaatccaaac gtcattaaga ttcttgagga gttcccacca cgtagcaagc tagatacaca 180
 agcctacggt gatcacacct gtataataac aaaacaacat ttggaaccta acttgggtgg 240
 gctcactggt gagcaggcta tccagagcaa gaagctgttc atcttagatc accatgacta 300
 tctcattcca tatttgagga aaataaatgc aactaccaca aagacttatg ctaccagaac 360
 catatttttt cttgaaaagt gatggaactt tgacgccttt ggtcattgag ttaagtaagc 420
 cgcatcc 427

<210> 5975
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076e05a1

<400> 5975

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 cgtttttact gttgaatcga tcattcacia atcggggggtg tctgaaattc aaagctgttg 120
 ttgttggttg ctgctggggt tagtctctgt gcaggtttgg gtgttttctg aggagagcc 180
 gattctcatt ttgctccaat ggagatgcag gaccaaataa aaagcacaag atcaaccata 240

tttggctcag ctagtaacat ccattccaat ggtgaaaagc aatccgaaaa tgttgctcat 300
 ataccttctg ttggcaacaa ccagactacc aaggtgagga aaccatatgc cactactaaa 360
 cttcgggaga agtggactga ggaagagcca tcaaagttcc ttgccgcctt gaaattg 417

<210> 5976
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220076e06a1
 <400> 5976

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 tccagagcgg aagatgtcct ttttcaaaaa tccttacatt ctgggactgg ctgctgtcgc 120
 cggcatcggg ggtctcctct tcggctacga cactggtgtg atatcagggg ctcttttata 180
 cattaaggat gatcttgagg aggttagaaa cagcaatctt ctccaggaaa caatagtcag 240
 catggctatt gccggggcaa tcgtgggagc agcattgggt gggttgatta atgatgccta 300
 tggtcgaaag aaggccaccc tctttgccga tgttatcttt accgccggag caataatcat 360
 ggcttctgct ccagatcctt atgttctcat tttgggacgc cttctggttg gtttgggtgt 420
 gggcatagct tctgtcactg ctcccgttta tattgcagaa gcttcacctt ccgaaataag 480
 gtgttcatta gtcagcacia atgtcctcat gataaccggt ggacagtttc tttcctatc 539

<210> 5977
 <211> 140
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220076e06d1
 <400> 5977

gcacatacaa tcagtactg cataaataag gctactttat atttaaacta ttaaataatt 60
 aaatataatt attattaatg atcattataa taatcatctt attaaagggg aggcgagtan 120
 attgaacacc tcggaatacc 140

<210> 5978

<211> 521
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220076e07a1

 <400> 5978

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 tagcgggtga tgccgaaggc gcgaacatcg ttttgcagcc gcggttggtc actctcagat 180
 cctacggttc ggatcgagcc ggggtgctta tcaagactcg taaggagggt gaccatgatg 240
 acgtgtcacc cttcttcgcc gcgctttccg actatattga gagctctaag aaaagtcaag 300
 attttgagat catctctggt cgtctagcta tgatgggtgtt tgcagcgacg gtgactatgg 360
 aagtgggtgac agggaaactct gtgttcagaa agatggatat tgaaggaatc acataggctg 420
 gtgggggtgtg tttgggtgca gtaacttgcg cagtactctt tgcattggtc tgcagtgtcc 480
 gaaacagagt tggtagaatc tttaccgtaa gcttgaacgc a 521

<210> 5979
 <211> 517
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220076e08a1

 <400> 5979

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 ctttttcaag gtcagctgta aatcatgaaa gtgggtgcaa atctggtgta tctgggattg 120
 tttcaggaat tataatgacc tgtgcacttt tgtttctaac accattatctt gagtacatac 180
 ctcatgttac ctttgctgcc attgtgatct ctgctgagat aggtctggta gattatgatg 240
 aggccatttt tttgtggcgt gtagataaga aagattttct tctttggacc attactagca 300
 ctacaacatt gttccttggt attgagattg gggtccttgt tggggttggg gtttcacttg 360
 cgtttgtcat tcatgagtca gcaaattcac atattgctga tttgggtcgt ttgccaggga 420
 caactgtcta taggaatgat aaacagtatc ctgaagcata tacatacaat ggaattgtaa 480
 ttcgtcgtgt tgatgctcca atttattttg caaacac 517

<210> 5980
 <211> 393
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220076e09a1

 <400> 5980

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tggtgttttt tttttttttt tttgcccttc ccctccaacc ttgttttttt tttttaacaa 120
tatatcccg aaattggggg accctggaaa tgggaccttt ccccttttgg ggagcctttt 180
tttaacaacc ccctgacttt ttgttagcct tttggcgctt agtccaatat ttttgaaggc 240
ggcccttgtt ttacacattt taaaattctg cccttaagag tccggtttta gaaattcccc 300
aaaaaaaaa aaaagggggc ggccccccat ttaaagcccc gccgccccga atttttattg 360
cggaccgggc ccttgagag ttcccgcttt ccc 393
  
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<210> 5981
 <211> 553
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220076e09d1

 <400> 5981

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tttctatcta tctatctatc tctgagttcc tgttogaatt gcagcaactt ttcccgaaca 180
ggctgtaaaa atagcttcaa gtcgttgctc atctgtgtct tgtcttgatg caagatatcc 240
cttgcttcac tcagtctcac ttccacctgc aagtcactta gttcaccaaa tgagaactct 300
gggacatcta tatgaccccc aataaacttc ttctctcctt gtatgatcca ttcccctttg 360
acttttaagg tcaactcata tgtataacca acacgtttct tgttccgaac tatcaccatg 420
aatgcaacat tttcctaata atctgaacct gacgagtacc ttgaaaaaat ttagctgaaa 480
aaaacctgat tctatcgcca acgcattttg ttacatcttt tacttctgcc ctgccaagga 540
gaactgaatg gag 553
  
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<210> 5982
 <211> 479
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076e11d1

<400> 5982

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cacgtagttc caattcagaa caccaaaaca ctttcaagaa tttgtcttaa cagaaatttc 120
cactttcggt aatgatggag attcaacatt gaaaccaaatt tattgcaggc aacttctctt 180
ctgttggtcc gtgtattcaa acacaattgc aacattacca aaacatgaat tctggtagtc 240
gtctaactca tgcatacaac ccataatgt tacattcccc aagaaaaacc ttgatgctgc 300
gtggtgaacc acagctgcct tcgacaatca atgctctgtc attggcagcc atgtgtgcga 360
taatcttgta aatcatttcg atatcttcag gagcatggca acggtctgct acttcttcga 420
gggtcaatgg ttctacaggt tctttgcagc ttgcctcatt tagcactgcc aacactcgc 479
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<210> 5983
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076e12a1

<400> 5983

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cctgatccct aagaacacta caattccaac aaagaaggaa caagttttct caacatactc 180
tgacaaccag cctggagagc ttatccaggt ctttgaggga gaatgagcaa ggaccagaga 240
taacaatttg ttgggcaaatt ttgagctatc tggcattcct cctgcacca ggggtgttcc 300
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taaaaccact ggccagaaaa ataagatcac tatcaccaat gacaagggtta 410
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<210> 5984
 <211> 512

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f01a1

<400> 5984

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actctggaga accctttttt gttctcaaca gtgatgttat cagtgagtat ccactcaaag 180
aatgattga attccataaa aaccatggag gagaggcttc cataatggta accaagggtg 240
acgagccatc aaagtacggc gtgggttgaga tggaagagag cacagggcag gttgataaat 300
ttgttgaaaa accgaaattg tttgttggtg acaaaatcaa tgctggaatt tacctgctga 360
acccctctgt tttggatcga attgaactga ggcccacttc tatcgagaaa gaggtgtttc 420
caaagattgc ttccgagaaa aagctatatg ccatggctct gccaggattt tggatggaca 480
ttggacaatc gaggatttta ttgctggcct ga 512

<210> 5985
<211> 514
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f01d1

<400> 5985

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aggaaagaaa tgccatgaag taaaaaggaa aaccaaataa aacggacaaa catattccag 180
actcaataat ttttctacct cctcaccaca tggtagcaat ttgaacatca ttgacctcac 240
tcacatgaca atctccggtc tcagaatatt tgacttgatc tccttggtgc gcaaaacaac 300
accaccattg ctgtaaattt catcacatac atggacatct tctccaagga tggatcatatt 360
atccactcga gccattgcc caacagttga atgccacca acaatactgc tggatacaca 420
agcatgcttc ttaactcgga cttcacgcat tattgtgcag cttttgagtc taacaccttg 480
ctcaataacg cagccaggac caattgcaac atta 514

<210> 5986
<211> 73
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f02a1

<400> 5986

tagtggtggt gctggtcgag gcattggagg tcttgctggt ggaggtgccg atggtggttt 60
tggaggtggt aaa 73

<210> 5987
<211> 543
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f03a1

<400> 5987

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ataaaaaaaaa aaaaaaagtt cgtattttcc ctcccatgat cgaccctcat ggtcacagac 180
tccaagccca tcattccccg ggcgcggctc gtcgctggca actactgtca tgacgtctc 240
caccgcgacg gcgagaccgt cgccgagacc ctggcgggcg ccgcctcctt catctccgtt 300
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tacaccgccg acacatcgaa tcacccccg ttaataatcc caaccttcca aaccacgctc 420
ttccacgctc acttcggttc gggccacccg gaccgtctcc tgaaccgcgt ccgatactgc 480
gattcaatcc aaccacccga cctcccggac caacaacccc ggttacgggtt ccgactcgcg 540
gtc 543

<210> 5988
<211> 532
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f03d1

<400> 5988

aaatccaacc cctctctttc ttttttcgca tctaaccctt catttatgtt tttttccaaa 60

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 caaatttgcc atgaaatttc actttccatc attccattcc aggctactac tcttggcttc 180
 tctcgtcccg ttcccactgt acactaacca atattattat tccctaaaaa taaaataaaa 240
 aaaggaaaac agcttctctt tttttttttc tcttcccttg atcatagttc ttcataaacc 300
 tcattttgtg aaaacactaa ttaggtcata ataataataa taataataat aattacgaat 360
 ccacctgct aatcccaatt ctcttcaccg acacgttctt aaacccttcc atcatttcca 420
 taccctgaaa acacatcatc ccattctgct gctccatgta actcctcacc tccttcctta 480
 tcattctcatg catcacgcc ataaactccg cattcaaatt caacgcttct aa 532

<210> 5989
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076f04a1
 <400> 5989

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 ttggcgcata caaaactgcg tcaatagaga ccttaatgaa tcatttgcag gagactgcac 180
 ttaatcatgt taagaccgct gggcttctag gtgatggatt tggttccacg cctgaaatgt 240
 gtaagaagaa cctgatatgg gtggtgacta agatgcaggt tgtggttgat aaatatacta 300
 catgggggtga tggtgttcaa gtagacacgt gggtttctgc atcagggaag aatgggtatgc 360
 gtcgtgattg gcttgtgctg gacgccaaaa ctggtgaaaa cttgacaaga gcctccagt 420
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<210> 5990
 <211> 190
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076f05a1
 <400> 5990

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gggacttcga ctgcaactgac cccggcttct aatgcacgct ctactgccgc tataagggta 120
agaacctctt attccttgtc gatatgctct gcgacttatg cctaccttac gggtgctttg 180
aatagtcttg 190

<210> 5991
<211> 498
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076f06a1
<400> 5991

acttgatcgg tgggtgatctt ggtgtgttga tgttttatta aacttttgta ctcttgcttt 60
gaaactagtt ggtagatct gaaattctcc taagatggat acttcttata ggactgggtg 120
agtcaagtac gaggcttgcc tttttgatat ggatgacact ctttaccat tgagcttagg 180
tctcaatttg ttttgctgca tgaacatata agagtatatg ttagaactct tgcataatgaa 240
gagagtgaag tgccaaaaat gtgtttggat ttgtataggg aatacgggac aactatggca 300
ggattaaagg tccttggtta tgagtttgac aatgacgagt ttcattgctta cgtgcatgga 360
aggttaccat acgagaaact gaagcctgat ccagtattaa ggaacctttt gctttacatg 420
cctcagcgta aaatagtatg ttaaggaaat gtcaaacctt ctacataaat ttgcacagtg 480
aggagcattc cacaatat 498

<210> 5992
<211> 475
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076f07a1
<400> 5992

aattctcatc acataatggc ttgcaaacct tcttctttcc ttgcacttct tctcatcgcc 60
actatccttc ttgccactac atggcaagcg gtcgctagac gccacattat tccaaaacac 120
tcaaacaaag gggacaagaa agagcctcaa tttttgttcc ctccggaagg taatttccat 180
tttctgggct ttgggggagt agggctgcca cctttctttg gggttacacc tcaaagccca 240
aacactgggtg gtagtggact agggctcagga ccactaggtc gtggttatgt tccaggtggt 300

gatgacacct ttgtcccaaa ccttggtttt gagtttccaa accctggcag tgggtggtgga 360
 gtttcagtta atccgtgagt cctcccagtt atgagctatc atgcattatg catgattgca 420
 ccttttgaca aattgtagta actagtctcc tgtttttggt actcgtgaat aagta 475

<210> 5993
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220076f07d1
 <400> 5993

cgaaaataac aagtcgctgt gcttgacctt ttattattat tgtcattatt ttgggttctgc 60
 ctttgggtta tatcaaaaac agtaacaacc atcaaagccg ctgtgaagac agccagacat 120
 gcttattaac atttcatgc aaataccagc cttacttca taatagtatc atatgccaaa 180
 tacagtcaaa gccaccactg aatccagtta cttggaacac ttagaagata ataactaaaa 240
 agctatagga aaatgattac aacttttgag ccaaaatgga agcccaaata attgtacaat 300
 gccaaacttag gcaaccggtg gacggagtag atgatcctgt gaggtatcca cggcggccgg 360
 aggcataaat tgccacatgg caactcccgg atagctgatg aaaggcacca acttgttgcc 420
 aggggcttgg ccttgtggag caaatgcagc agggattgca ggagggggtg gcaagaaagc 480
 angttgagca ttcattgatt t 501

<210> 5994
 <211> 254
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220076f08a1
 <400> 5994

gttctagatc gcgagcggcc gccctttttt tttttttttt tttttatttt tttccttttg 60
 gttatttttt taatcttttc ttttttatca ctatctatac gaaacaataa aacgacccat 120
 taatattatt aaaaaacatt acaaaaacaac ccacccttac aaaccatact taaaatacag 180
 ataaaaacaa tatacctttc ccacaaaacc cctaaacata ctaaaaaata aaaattcact 240

ctctttatac cacc

254

<210> 5995
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220076f09a1

<400> 5995

caaattccaa tccttcaatt caataatttc tttttaatgt tgncttctct gctgaaccct 60
tgggtgacct tttcccttcc aatccccctca attttaatcc ctaataaccg gcgagcctcc 120
accgtagtat catgcacctc ctcacacctc accaccaaca accactocca agtttcttcg 180
ccgccgaaca tcaagagacg agggccgcgcg ccgccccgcg gcggataacg acttcacggc 240
gaagtacgtc cccttcaacg ccggcttcga ctgcgcggaa acctactcgc tcgacgaaat 300
cgngtaccgc agccgatccg gcggactcct tgacgtgcag catgacatgg tggctttatg 360
gcgcttcgac ggcgcgttct ggcgcgcg 388

<210> 5996
<211> 461
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220076f10a1

<400> 5996

gttagaatag atcccaacac tagatagttt ttttttaaac attgtgagtg agagagagga 60
atcaaaggaa gaggaaggca ttaggttagt gttggcgagt gccacagaac ttggtttgaa 120
aatcagcaac tgcattccaaa gagccacctt taatggcccc tcgccgcacg ccgatgacga 180
cgacgatgaa gccaccgaac gccttctcaa catttgcgat gcccttgaag ccttggagac 240
ccagctctct tgcttgcagg ttctgcaaca acaactgcaa gatgaaagag aaattgcctt 300
ggctgaaatt gaaagcagtc gccatatgtt aattgaccag ctctgggagt actaaggtaa 360
ggaattagaa gtgataaatt gaagcttctt cttttgctag tgaaacagag gagcccaaca 420
atgatctatt acttccacca gatcctagcc accctccata c 461

<210> 5997
<211> 452
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076f10d1

<400> 5997

aatatataaa aatatttata tagcattgct cagaaattaa attatttgca atggaaggaa 60
tgagctttct ctggatacat cagctagaaa aggaaagcaa caaacagcaa agaaaacaaa 120
cagaacagaa gaagaaaaag aaactaagaa ctctatgtaa gagatgcaac ccatacataa 180
tctggcataa aaaggaataa gggttgtttg ttctatttag tctggcaatt aaaaatttat 240
ttattacaac caaaccattc atttagtctt acacttgtct ctactcact cactgacaga 300
gagcacatga tgtttttttaa gggccagtga tgctcatcc ggtgctgatg atccaaattt 360
ctgaaactga acccttaata tattctctc agacaccacc aaacgctgt ttccatcatc 420
atcgaaatga atcccaatat gccacattt gc 452

<210> 5998
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220076f11a1

<400> 5998

tgatatagca ctttagcgta gcaacactga atgagtaatg aatactcttt tagaacttaa 60
aaaacatcca agggtagtga gtgtttctgg ggctctacag ttcctactgg ccggttcggt 120
taggttcatt aggctcatgg cgaaacctc tctcgaaggc attcagttca acgaggaaat 180
ccaaggcctg atggctgctc cgagaccgga aaccgactat tccttgaagg cgctgctcga 240
gcttccgacg acgcaagccg ncgagctcct acactcgcct gatcgcgcca gaaaaccgnt 300
gcgccacagg ccgaaacctc caacgccacc ggcaccgaat ccgtcatcct nagcttgctt 360

<210> 5999
<211> 562
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076g01a1

<400> 5999

tgctcaaaga agtgacatat ttgcccataat tcttatctgg catttgcagg gtgagactgt 60
acctgagaca ggaaaagacc caaacagtgg gaagaatggt tcatttctag aactgctgcc 120
agcggtaagg cagcgtataa ttgatggttt taatccaaag gcacttgaca tattttaaag 180
agagtttgat ttctttgaca aagttacatc catctctggt gtactatttc cactccctaa 240
agaagaacgc cgagctggta tccggaggga gttggagaaa attgaaatgg atggtgagga 300
cctttattta ccgacagctt ctaacaagct tgttaggggt attcgagtag atagtggat 360
tcccttaciaa tcaggtgcta aagtcaccaat catgataact tttaatgtaa ttgatcgata 420
tggggatgag aatgatgtta agtcacatgc ttgcattttc aagggtggag atgactgtag 480
acaagatgtt cttgtcctta agttatagca ctacttagag atttatttga gccgttgctt 540
aaaactttat ctatttctta tg 562

<210> 6000

<211> 570

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076g02a1

<400> 6000

ttttcatgtg aagtatatcc ctagggaataa ataatttctt cacatttaca atgaagcaat 60
ccactctatt cctgttctta ttctattcc cctcgttca tgctctttct tacgaagctg 120
cttatattag agatggctc aaatcctatt ccagcttga tctccctcac tccgtttttg 180
gttctgaaag tgtagccttc gattgccatg ggaaaggacc atatgttgga gtgtctgatg 240
gtagaattct caagtggcaa gagacaaaga gagagtggat tgactttgca gttacctcgc 300
cacacaggaa caagaaatta tgcgacgggt tacaaaatga caagatggaa tcaatgtgtg 360
gaagaccctt aggctcaaaa ttcaacactg taacttgtga actgtacatt gccgatgcat 420
actctgggct tctgggtgta ggaccaagtg gtgggtgtggc aaagcaatta gccacttctg 480
ctgaaggggt ccatttagg ttcacaaatg ccttggacat cgacaccaa actggtgaag 540
tatttttaca gatagcagca tcttgttcca 570

<210> 6001
 <211> 380
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076g02d1

<400> 6001

gggaaaaatt aaaatcccct ttttaattat ttttaaaatc caaaaaaaaaa tttttaaac 60
 cccttttcag aaatccaaca tcaatcactt attctcctca aattcccact tttaatgaat 120
 cttaattcta aaattttacc cgaaaataaa ttccaccacc cccaaaaatt ttttaggtat 180
 tttaaaatct ttcttaacta tagccttaac taaatttcac ttgacacata ctaaaatctg 240
 tgctaaatta aaaatTTTTT acccctcta tataagtatc atctttgacc ccctaataat 300
 tctttcccaa accccttaat aaaagcccta tccttcatta caccaccaa tgggtcctcc 360
 atcaatcctt ccccaaaatt 380

<210> 6002
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220076g03a1

<400> 6002

tcataatcca aaagacaagc atgtttggac tagctccttc taggcttcaa gttctataca 60
 gcttgcgtag ctatagaact gaaggggcat cagaaccaga gtggaaagaa gtaaccgtca 120
 gatcaagtac tgagatagtc tttcagcctg aaaatgcttc aaaagttcga aagtttaagc 180
 tctcttcagc gagctctatg cttcttagcg cttgaagttg cccaaactaa ggaaagttat 240
 tttagggcgc tgatttttgc agatggcatc catcgctcgt ctatccatat gcctcttcaa 300
 gcataatgta attcttcggt aagctacatg aaatggatac attactagcc ttagaagata 360
 tcaatacagt cagatgtcta ttaccgcgag cttgtattat gtatatttta atataattaa 420
 cagctcttatt taagaaataa ccaagaattg caaatgaaaa aaaaataggg cggtcgtcga 480
 ctagtgag 488

<210> 6003

<211> 554
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076g03d1

<400> 6003

aaaataataa ataaataaat gattgataat atatagctag tgtgacaaat aaattaaaat 60
ttgccttcat ataaatacct tctatctctc tatattatct agggaaagaa tgaaacccta 120
acaataacaa aaattatttg aacaccgggc agaccaatc taactttctgt tgagcaagca 180
ccaggtcaat taaaaggaaa agttggctct tagggcttcc tcagggcaga tgctgcaccc 240
attacaattg ccaggacaag gccaagacca gcaccaacgg atgctccac agcagcagaa 300
ttcaatgaat ttgccttaac ttgagcatct ctacttgctt caatcgacat tgcttgttct 360
cgtgccaaact ccatcagaag cctatctctt gcaaattccc tgaaaaattc cccacctgaa 420
aggaagactc ctcacgactg cggagtatac agtggatttg ctgacaaaga gaatttacgc 480
ctttcactgg aaaaacaatc tccttttttag gaaaggcttc ctaataaagt aataggagca 540
aatatagctt ttca 554

<210> 6004
<211> 567
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076g04a1

<400> 6004

ctcttgttga ttttgctaac aagcggtttg ggaacactga gtgtcaatgg cctcaacctt 60
gttccaaagc ctcttgttga ttttgctaac aagcccatga ttcttcatca gatagaggct 120
ctcaaggcca ttggcgtcaa tgaagtgggtg ctagctatca attaccaacc agagggtcatg 180
ttgaatttct tgaaagagtt tgagacaaag cttggatatca aaatcacttg ttctcaagaa 240
actgaaccgc taggtactgc agggcccttg gctcttgcca gggataagct aataagtgc 300
tctggagagc cattttttgt tctcaacagt gatgttatca gtgagtacc acttaaagaa 360
atgattcaat tccacaaaac acacggagga gaggctacca taatggtgac aaaggtcgat 420
gagccatcaa aatatggtgt ggttgtgatg gacgagacta cggggcatgt tgagagattt 480

gtagagaaac caaagttggtt tgggtgcaac acaatcaatg cttgaatcta cctattgaac 540
ccctcagttt tggatccgat tgaactg 567

<210> 6005
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076g05a1

<400> 6005

gtgccagcaa agctgttgag gatattgact gggatgctct aactgtgaag ggtacttgcc 60
aggaaattga aaagcggttac ctgcgcctaa cttctgcacc tgatcctgcc actgtaagac 120
ctgaagaggt tcttgaaaaa gcactattga tgattcaaaa ttcccagaag aattacctct 180
ataaatgcga ccagttaaag tctattcgtc aagacctaac tgttcaacga atacgcaatc 240
aattaacagt caaggtgtat gaaacacatg cccgattggc actggaattt ggggacctgt 300
ttgagtataa tcagtgtcaa tctcagttac aaactcttta tgccgaaggc attgaggggt 360
ccgatatgga atttgctgct tacaacttgc tttgtgtcat aatgcattca aataataaca 420
gagatcttgt atcatcaatg gccagtgtat cttacgaagc aagaaggatg aagctgtaaa 480
catgcccttg ccgttcgtgc tgctgtaac 509

<210> 6006
<211> 494
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076g05d1

<400> 6006

acattgcaac caaggaatgt atatataaaa ataacaaaat cgcccataac gtacatatat 60
accagataca aatttttcac gacatatgat attacaaatg actaaaactt ctagataaca 120
acgaacaaaa gctatataat gaattcccac actaccacgc agttcaaaat tattgcatac 180
caataatttc aagaaccctt attaactttc actttcaaag ggattggtac aacaatatca 240
tatgctaata aatataatct taagatgaag aagcaggttt ggaagatggg ttgaaaggaa 300
cctgctcagc gcatgtaagg atttcatggg gcccgacctg ttctcgacca acacctagaa 360

ggccaagata atactggtaa tgggaaacga tattgttcat cgagtccaca tcaccttgtc 420
 caccacacc atccccatag agaatgttca ttgtagtgcc aaatccagga agacgattct 480
 ccatagtatc attc 494

<210> 6007
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076g06a1
 <400> 6007

ggcttccaag gagttctctg gtctttgctc cttggctcct tcaactatctg agagcatttt 60
 gtgcactact ggggtgaaaa tgtatatgct ggagagcaaa ggaggtgcca tagcatgcat 120
 gttcttgtct cttttcttct tggggacatg gcctgctctt ttgactatgt tagagaggcg 180
 tggtcgtctt cctcagcata cctacctga ttactcaatc accaatttct tggctgcttt 240
 actcattgct ttacacttg gtgggatagg caagggcaca catgatcagc caaatttctt 300
 agttcaactt gctcaggata actggccctc cgttcttttc gcaatggggg gtggtttgtt 360
 ccttagcctt gggaatctgt cctgccata tgcatttgct ttgttgggc tatcggttac 420
 tgaagtgatc acggcaagca taactgttgt cataagcaca acctgaatt actttttgga 480
 tgacacaatc aacaaagctg agatcctttt cccaggagtt ggttgctttc tgattgcaag 540
 ttttctaggt tct 553

<210> 6008
 <211> 581
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076g07a1
 <400> 6008

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 tgcattgtgt tggagctcga ggtgcttctg gttttgcatt acctgttga attgaggcat 120
 ttgaagagtc gggtcggtca cttgtacgtg gaactttgga ttatctgcaa ggtctcaaga 180
 tgcttgaggt caagagaatt gaacgggtac ttccagttgg aacttccttg actgttgttg 240

gtgaggctgc taaagatgat gttggcgcta ttcgaattca gcgacccac aaagggccat 300
 tttatgtctc tcccaaaaca attgatcaac taattgcaaa tctggggaaa tgggcaaggt 360
 ggtataagta tgcttctgtg ggcttgacgg tgtttggtgc ttatctgata gccaagcatg 420
 ctattcggtta catattggaa agacggcgcc gtagcgaact tcaaagaagg gttcttgctg 480
 cagctgctaa gaagtcggga caaaataatg atgttgaata ggccgacagc ttatcagatg 540
 gtgctaaaat gatcgctaata gccagattgt gtgtatatgc c 581

<210> 6009
 <211> 255
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g08a1

<400> 6009
 tgaaaattta taagataata acacacacaa acttttcaac atatggatga gagctaaagg 60
 agcaaaccat agcttccaaa tccaaagatg ctgccatccc agccatagtt tgttatgagg 120
 cagagacaga gcaaccaggc atcacaaccg gacaaaggga gaaccttgag gtgccaatca 180
 ttagatttta gcgacccaaa tgaaaggaaa gcggagcatg agattttgga ggctgtcgg 240
 gactggggca tgttc 255

<210> 6010
 <211> 162
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g09a1

<400> 6010
 atctctctct ctccaatggc caaagacctc ttaacggaga ttcaaagagg gttgcctcac 60
 atggactacc acgaccacc ccccgcccca ttctacgacc ccgccgagct ccgaatgtgg 120
 tccttcttcc gagccctcat cgccgagttt ggcgcctccc tc 162

<210> 6011
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076g10d1

<400> 6011

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt agtatggtta 60
ttttaattta atttttaaaa gtaaaaaaatt ctcaataatt gtgtaaaaaa aaattgcat 120
atttgtgact ttccgggggg agaaaaaaag agggtgccca aaaaaaggaa aaaaaaaaaa 180
aaacaaaggg ttacaaaaaa aaaaaaaaga aaaaaaccaa aaaaaaaaaa aaaaaaaagg 240
ggggggaaaa aaaagggcga aaaaaaaaaa aaaaaaaagg tgtaaaaaaa aaaaaaaaaa 300
aaccccaaaa aaaaaggggg ggggagcggg aaaggccaaa aaaaaaaaaa aaccctgacc 360
cgggtaaaga aagaaaaagg gggggggggg aaaaaaaaaa aaaaccccc aaaggggggg 420
ggggggcaag ggccaaaaac gggggggggg acgaaaaaaa aggagaaccc cggccaaaga 480
aaaaacaatg tatcgggag 499

<210> 6012

<211> 222

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220076g11a1

<400> 6012

ggggggccagt ctctaggttt ccttatgtga taccgccta agttgcaacg acatgctttc 60
atccataaca ggtaagaatt gtagcttcaa cgagtcacgt gaggagtttt atcttgagca 120
agaacctcac ccatcatcct ccaaaaactt gaaacacctt ttccagatga tccagaaagg 180
tacctactcc aagnatgatt atggaaagct aaaaaatctg at 222

<210> 6013

<211> 137

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220076g12a1

<400> 6013

tgatgatata taagatggta cgggacatt tttccccct ggcaaaaaaa gatccctgaa 60
gacccgtcc cccttttcga gagagagccg cctgcctgtg gggggggggg gggtccttaa 120

gggggagctc acccccc

137

<210> 6014
<211> 615
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076h01a1

<400> 6014

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ccgtttgcc aacttaagttt gcatactttt atccaaacat gcactaagtc tatatttgca 120
tttctgtttg ggactttggg ttactccaaa ctgagtttgg agagtaaact cagtttgaca 180
tggtttggta tcctcaaaag tatgtttgca cattaaaatt ttgcctggaa actcagttct 240
gtagaagcaa aacttgggtt gctttttaca actaagtttg caaacgttaa tccaaacatg 300
cactaacttg tttcttggtt gtccaatatt gtgatgttac gctgcactta gaagaccttt 360
gctcacaatc ttaataacat ctctgatcag tgtggctaca gaatataggt atttctgaaa 420
aaataagcat aacttaaatt tccgtgctgg caaaattgat tctcagatcc atttctactt 480
aaagtaggta gcattgaaaa catcttatat atcgattaat acctttgata gtgtaggggtg 540
tctacttatt aaattataaa tgtagagaa ttagacgaa gatatttatt cttgtgagac 600
cattggtttg caaat 615

<210> 6015
<211> 486
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220076h02a1

<400> 6015

gttgttgtgt aatgatactc attgtcacca ccaacacgct ttcactttac tgaacaacga 60
cttcatcttc actcttcctt caaatattcca acaagaaagt ttgttcaact gtccctttat 120
tggcgttagc tatgctacct actggagcaa aagagacca attacgtgag aacaacagcc 180
agaagggtcca tcctcaacca atggaagagg ccatgaatca taatccagaa gcaatggaaa 240
ccctaataatc taaagttttt acaaatatct cttccttgaa gtcagcttat atccagcttc 300

aagctgctca tactccctac gaccctgata aaatccacac tgctgataaa cttgatatta 360
 gtgagctgaa aaatctgtct gaactcaagc atttctacag ggagaacaac cccgaaccag 420
 tgtgtgtttc ttcccaagac tcacgtttag cttgcagaat tcaagatcaa cagagccctc 480
 ttaaaa 486

<210> 6016
 <211> 540
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h02d1

<400> 6016

aagtgaaaat gcatcacttg ttgattagtt tagtgccctc aactgtggaa aactcataca , 60
 ccagaacatt gcttctcccc aaagcattga aactcctaaa ttaaggaaca tttgttatat 120
 accttcttat tcccctctcc cacaacact agaattcaag tgcaggatat tttcacaata 180
 caagaggggc cttgaatgta aacaagctta aagggtcat ttactcttac aaccactaaa 240
 aaggatatta aaaattacag acaacagcat tatcttacia gataaagaaa caacaattca 300
 aacaaaccac atacaatcaa ctatgcattt tctgaagtct tgagtgtgtt caggaatcat 360
 tcagccacct tcataccaga gagatagact ttactctgaa tcacacttcc cccaatccaa 420
 aatccaggca taaccatcaa accaacttta ggtttttcat cattgtcatc cattatcaaa 480
 ttcttgacca cactttccat ataaacatca gagaactcac tcccttctta acctgaaata 540

<210> 6017
 <211> 616
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h03a1

<400> 6017

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 gttcggcaac ctcaatttct gtcctctaaa tcatgcttgc gtttcgatcg aagccttggt 120
 gcagttacia ggaaacagcg tccttcgcac ttgcacactt cacgcacttg gtgctcaact 180
 acgcacgcgc cgggagctct tgggtgcccta cagcgccggg cttcgggggt cggagaggct 240

acatcgtcgt tgcctcgttg ggggacccac ccgaagtctg gtccggcggc gggattgtcg 300
 ttcgccccgg gaattccaat ttgaagtcg ccggcgggcg tggcgccccg aactccggcg 360
 attcaaaaga ggggtgctgg ggtgggtcca atttggggaa cagtttccca acgccaacg 420
 aaatttgcaa ggcgctcgac aaattcgta ttggacaaga gagggccaag aatgtgctat 480
 ctgtagcggg ttattaacac ttatagacga tatttaatga aaaccttttt gaccaagtgg 540
 cctgcatgag aatcagtata tagtgggata gttgatgctg ctgatgatga ttgaagtga 600
 cttgacataa gcacat 616

<210> 6018
 <211> 549
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076h03d1
 <400> 6018

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 accctcaact tctcattcac aatccttagc tcttggtcat atgcattaat cttgacacga 120
 aaatcttcgg cggtgttctc aattttcaat tcatcattct tcacacgttc ctccctcatgc 180
 ttttctttcc cctcatgtgg tatctcaata tccaattcca tcacccttct gtggatacta 240
 ttatgatcat ttccattccc aaagaagcct gaaaaactgt tcatggatga agcatcatca 300
 taatectcat cagtctctgt caatgtagaa gaaccatctc catccttttg acatgcatca 360
 aaagtattca cattcccacc agaaccaaga aaaacatcaa accccgcggc gcgatttggt 420
 gatatacgac accccatctt cctaggagaa ggagaaggca cgtaagagtt tggctcagaa 480
 ccataatctg aaacacctga agcctgtgat tgaagatcac acggtgtggt gatgtgatca 540
 aaacgttca 549

<210> 6019
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076h04a1
 <400> 6019

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ccacattagt ccatttggtc agctctccaa catgttggtc tctcatgggtg ttcattgtcac 120
tttcttggtc gctgcattca acattcccag aatcagatca actcttaatc tcaatccagc 180
catcaatggt atctcactaa agttcccaaa tgggtataacc aacactgctg aattgccacc 240
tcacttagct ggaaatctca tacacgccct tgacctcact caagatcagg tgaagtcctt 300
tttggttgaa ctcaaaccac actatgtttt ctttgacttt gcacaacatt ggctcccaaa 360
attagcttct gaagttggca tcaagtctga tcatttctca gtctactctg ccttttctga 420
tgcttacatt accgtgcctt ctgatttgc tgatgttgaa ggaagaaaca tcacttttga 480
agatcttaaa aagccttcac ctgcgtatcc tcaaaactct aatatttccc 530

<210> 6020
<211> 484
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076h05a1
<400> 6020

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aagtcaagct tgcagatttt gggttggtcaa aggcaacgaa atttaatgat gttaaataca 120
gcaaagggtc tccatactgg atggcccctg aggtttctcc ctgctcttgt atcatttgct 180
tggagtaatt cctgcaaagg aatgaaatca tatggctgtc taatttagtt ttagtctgta 240
gtacatatc caaatgttgc tgtaagaaca taaagtataa ccatccataa attagtttac 300
tgtagtatat gcttccattg atttcttgtg atggagtgc gattcagaat cttgaaactt 360
tagtttttcc acccacttgt gatttatgag agttgtttta gtaaactggc aaatgaattt 420
ttatacttgt gagcttttta ttgcgactgc gttaactttg aattgctggg tatagggtgt 480
taac 484

<210> 6021
<211> 451
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076h05d1

<400> 6021

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taaaccaatg aaacttactg atgacattct gtaagtagga atttgaattc caagggcctg 120
gacacttttc ctttttttagt acatataaat acctacctac ttttgaaatc tacaattggg 180
gatgaatagt aaaatgagcc catgttaagg gcaaaaatac attaaatgtc aaattcaatg 240
cattattaca tagttaaatc ccgaggaagc ttgaatttag gattctgctc catgaaggct 300
ggaggtcggt ggtacacaac tgatgcagcc cttatcaaga tcccagcagt caaaccccat 360
ataaggaatt ttttatgttc gatttcatag gcaaacaat gtttcagata attctctccc 420
atgcactgga ttttcttttg actccttttt t 451

<210> 6022

<211> 559

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220076h06a1

<400> 6022

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gttcaggaag gagagagaga ataacaacag gactttggaa tggtgaagag gagccactca 120
cagcagagaa gcttctggcg tttgccatgc agaaggttga gtccatgaca gtcgaagcat 180
tgaaaattca agctgacatg gctgaggaat tagaagcccc atttgatatt tctgcaaaga 240
aaggagaggg tgggaaggat cttttggctt cagttattcc acttgaggaa tggatcagag 300
accacagcta tgctaaaact gttgcaggtt ctgatgggga accagaaaaa gtgacactcg 360
tggtggttgg ccaattgaga gatccattga gacgctatga agcagttgga ggacctgtga 420
tggtgctgat tcatgcaaca agtgctgaca canaaggga ggaagaagag aaaaggggtca 480
aggtaacaag catgcatgtg gggggcttca agttgacaag tgccatacag aagaatgcat 540
gggacagtgg gaagcatat 559

<210> 6023

<211> 540

<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220076h07a1
 <400> 6023

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 tttgccaaaga ggttggttgca caaggctgtg cagcaccatt ccaaccacaa gttgcagcat 120
 ggtgggtttgc aagggagtga gttggatccc agaattgtga ttcactatgg cattccatcc 180
 actgcttcag ttctcgcttt tgaccccatc cagcgacttt tggctattgg gactttgtta 240
 aaacacgaaa atgggattca agatttcaga aaaatttaac ctgggggttat tctaattagc 300
 cgtgggatgg aagacttaag gtgattgggg gtgataatat agaaggacta ttggtttctc 360
 ctaagcaatt gccttacaaa tacttgaggt tccttcaaaa ccaagggcat ttagttggtg 420
 tcttaaatga caatgatatc cacgtttgga atcttgagag ccggagcctt gtttgttctt 480
 tacaatggga gttcgatatt actgctttat cggatcagc gggttaaaatt tcattattgt 540

<210> 6024
 <211> 142
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h08a1

<400> 6024

gagataccaa taccgagcat tattcgccct ttcatagaga agctcctgct tttgtagagc 60
 atgaaaccgg acagcagata cttgctacag gaatcaaagc agtagacctg cttgcaccat 120
 atcacagagg aggaaagatt gg 142

<210> 6025
 <211> 257
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220076h08d1

<400> 6025

tttttctttt taatccaatt ttatttcac aaaaatctac ccaatatatg gggcgggata 60
 atttcccata tgcgtctaatt ttttgacca atagctagca atcataattc ccacgtgata 120

caaaaataat gggattggta tatggtgcca attaattact tttagctcca ttagacacta 180
 tgattggatt aatagcctta ttcagatacg tacaaaacct gtcgaatttg caatggcttg 240
 cgctcattct tacggat 257

<210> 6026
 <211> 162
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076h09a1
 <400> 6026

ctctcagtag aaaaagtaga aaggagaaga tattcttgag caattcgaag cttctagttc 60
 ttgtgagccg gaggcttcta taactcaaga aacagaaaga gaaaatgagg atgctgggga 120
 atgtaaggga agtgaaaatg atgagataat caaagaactg aa 162

<210> 6027
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220076h10a1
 <400> 6027

atctctgtgt gctcaatggc catagaccct gtatcagcga ttgaagggtgg gttgcctccc 60
 agggaccacc acgaccacc cgcgccccca ttctacgacc ccggcgagcc cggacagagg 120
 ncctccatcc gagcccttat agccgggatc cggacgccgt acgatcagta cacgaatcca 180
 tactcccggc cttcggtttg taccacctaa cagacaccgg cgccgagccc tgcacagttg 240
 ctggcgttct cggactcggg gggggccggag gagggccgaa agcggtcgcc gcctattgca 300
 ccgaccgcat 310

<210> 6028
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220076h11a1
 <400> 6028

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ggcaccatcg ctaccgctga tcttccggtt ccagcgacca aaagctgggc cgacgaagcg 120
gacgaagaaa ccaacgcctc caccgccgag gcagaaacct cctccgttaa cctggaagcg 180
ttaaccatcg acgacaaaga aaagaactct tcaaaactct tggacgaccc cgacgattct 240
aatattcaag cggttacttc tggcgatacg ccgtacacgt cggcagcgag gtctgaggac 300
ctaagcctct cgccagagct tttgaagggg ctctatgtgg agatgaagtt agagaagccg 360
agcaagatcc aggctatcag tgagccgatg atccttagcc cgccaatcg ggacctgatt 420
gcgcaggcac acaatggctc tggcaagacg acttgc 456

<210> 6029
<211> 371
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076h12a1
<400> 6029

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atccataaca ggtaagaaga gttgcttcaa cgagtcacga gtggagtttt atcttgagca 120
agaacctcac ccatcatcct ccaaaaacta gaaacacctt ttctgatga tccgcagagg 180
tacctactcc atgtatgatt atggaaagct ataaaatctg atagagtacg gcatgttcaa 240
tccaccaaag tgcgacctta ggcgcatacc caaatcattg cctctgagga tggcctatgg 300
tggaatgat gcttaggcag atataactga tttccagcac aactcaaag aattgccatc 360
cacaccggaa g 371

<210> 6030
<211> 400
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220076h12d1
<400> 6030

ggtaaacaac tttaatttat catttcaaga tcaaatcagg aagaaattaa acataaaatt 60
agaagagaaa atttaaaaaa aaattaaacg atcagagttt gatcgatgaa cacaagagaa 120

attcagataa attcttcttc atcttctttt cagcaacaat ctctctctct cgctctctct 180
ctcaatctaa aacctcacac tctctctctc tctctctcaa acctgttata tgctactttt 240
ttttttcttc tctctatata taaatctgaa aagaaaaaaa gcgaaacccg tgacctgaac 300
ccgatcgcg c gaaagggtcaa ccgtcaacga cgtcgttttg agattccggt ccgttcgggt 360
ttttttcctt cttttttggt ttttttcaga ctttgacgat 400

<210> 6031
<211> 412
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a01a1

<400> 6031

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tgatgtttcc tacattcacc tgggagctgg agagcaccac tcatgactaa gctctgagac 120
atggctgtcc ccgtgttgat atatcctagc tctgcatact actcatatat agagtgtgct 180
atgatgctct agaagcacca caacagaccc ctattctgct ttttgattaa cgggagatga 240
tgatgatgat gaatacggaa gacggttaat actgcgtcat tctaactacta gctctaattg 300
acgcactact gtccataacc gtgcgtggct gtctgctctg cgactgctca acagtgtgcg 360
tacagcaacc ccagtttccg tacatgcacc acatgttcgg atacctgagt ga 412

<210> 6032
<211> 393
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a01d1

<400> 6032

aaattaaggg tatttggtatt caagaatgaa aatgacatgg gacgtagggc ctacagttga 60
agttggggat ttgataaaca agccttttaa tgaaaatgcc agataaaaag agacctgaga 120
ttttgaacta gaatagctca tcctcctggg ggggtctgaat aacaacattt ggggggggat 180
aagcaacaca ggggagaaca aatccgttac cgatttgggt atcatcaagg gaactaccat 240
tagattgggc gactttgcc a gaaacaactt tgccggcaca ggaagagcaa gccccagcct 300

tgcatgaata gggaagggca atgccaaatt cctcagcctt ttcaagaatg aaaaccttat 360
 ttgggcattc aaattcttgg gctcctttgg ggg 393

<210> 6033
 <211> 571
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a02a1

<400> 6033

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 gaccctcctg ttgtcccaca tcgtcccca aagaatcacc aaaccggaat tcaaaaccgg 120
 gtcgacccga cacagaactt tagcgtctca ccaccacctc actctccaag ccttgaattt 180
 gactcactgg aatgttgagt cttcccgggt tattaaccgg aattcggtta cccgacccga 240
 cggagtgatc cacggcatcg acactctcct catccctcgc tcagtccaag acgaattcaa 300
 ccgtcgccgg aatctgatct ccatcgccgc ggtaaaaccc gtaccatccc cggaggtcga 360
 cccgcgaacc caccggttaa agaaaccggc gccggcatcg ccggcggggg cccgcgccgc 420
 gctcccgatc tacgacgcga tggcgccggg gccatcgctt gcaccggcgc cagcgccggg 480
 tccgggtggg tctcacaagc acttcaatgg ggaaaagcaa gtaaaagatt tcatcgagac 540
 gttactccac tacggtgggt acaacgagat g 571

<210> 6034
 <211> 374
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a02d1

<400> 6034

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 tgctaaaaaa acctaaataa catagcattg aaaactatat ctgttaattt catactagga 120
 atattccata aaatttataa agcaaaccct aaagccccct ctgttgaaat taatcaagaa 180
 aaaataacat ggatatatat attcatccat tttcctataa taaacttttt atgagttctc 240
 ataaaacacc attaaacttg ttgaacaaca caaaagggtt ttgtttctga agatctcatg 300

actatcttgc ctttgatctt gaaagctatg ttcgttacaa acaaaccaaa ccctttgctt 360
atgatcctgt gaaa 374

<210> 6035
<211> 493
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a03a1

<400> 6035

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ggggatcatg gggttcaaat cccttcttaa catgaagaag aagaaacttc tgaagacgat 120
gcctctttcg ttctcattgc cccacgcgcc tccggaatgg ctgcattcat caccgcgcta 180
cgggatggag gactctgagt ctgccttcta aaagatcgac tcatacggcc acagactgat 240
actcgggtgcc gaactcgtct gcatgatgca tagcctgggc cagccccga ccgatgaaga 300
gctagagacc ctgcttcccg aggtcgcttg cgtctgtgac gcgcccattg acttggagga 360
gttcaccgag atgaatacca gggacgtgga ccccgacgag gatttggaga atcgtgagga 420
cgctttgtgc atcgttgatc ttgacggcaa cggttgcac accgcggagg agcttaaaat 480
ggtgatggga agc 493

<210> 6036
<211> 361
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a03d1

<400> 6036

agtgggttatt ttttttgttt tgttactgaa acatcatgtg accacaacaa caacacaaaa 60
aaaggaaaga actcgagcaa ccaaaaatcg acaacacgaa caaaaccgag agtaagagaa 120
ataaaaaaca aatagaaaga accagaaaca aaacaaaaac aacaaacaac aaaaacataa 180
accagcacta cagaaaactg aagaacaggg accagaaata cagaaaacac aaagggaaac 240
aagagaagga aaagccaaac atagcagcag ggaacacgcc accgaagaca tacactgggg 300
aggcaggaca ccaagacgac acccgcgaaac gaaaattcga aagagggaat ggaaaacacc 360

<210> 6037
<211> 624
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077a04a1

<400> 6037

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ccgaagtagc acagctctgc aaaaaattca gctaggaatt caccttctga aaaagtttct 120
ccaactcgag tcccccatga aaaatcagct gaccagcccc ttactgatca agggaataat 180
cagcgattga ttctccggtt gccaaacact ggtcacagtc cttcaagggg agctagcggg 240
ggctcttatg aagaaccagg tatcacgtgc agcaaagctt cttctcctgc tgacaggaat 300
gagaatcagg acagaagaat gaaaactaga cctgagtgtt tgctgacca tgtgtcaaat 360
atgatgaatg aggcattgta tgctagtga gctttgcttg gtgttgacga aggtaagggc 420
cctcaaacgg ttgatgagcg atgcagggct aatgaagatg gtgataaggt agcagaatca 480
tcaaaaccgg ctaagttgtc atctggattt gtttccagat catggcagac ttatgantta 540
agcccatga atgcattaat tgaaagctgt gtgaaaattc ctgaagcaag tgcattcctg 600
taccatggag atgatgggat gaac 624

<210> 6038
<211> 364
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a04d1

<400> 6038

agagagaagt gacacattgg ccaacctggg catataccaa taaccagaat gtgataagt 60
acaaaattcc agagtcaaga ctacagcaat aactatatat gtaacaaaag ttgaaaaaaa 120
aatgatttaa agaaagacaa actggcctta agcctagcca gttcagacat tcaatccttt 180
ccttccaaat gctcgagaat ggattgggct cggtgctggt gcagagcagt cacagtcaaa 240

cacttgatgc ccatttctct gattctaggc gggattatca caccaactgt ttcagttaga 300
 tatctacaca ggaaaaactt tatctgcaag cgacaataag ggagcagatt cattcaaac 360
 aact 364

<210> 6039
 <211> 596
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077a05a1
 <400> 6039

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 agaagagttg gcgtcgaatc tttccctcta caaagatcaa ctgaaccagg ttagagaact 120
 cttaaacgat gaccctgcaa attctgaata tgttgacatg gagagggaac tttccgaggt 180
 cattgccttg accgaggaac tccttgcaac tgcaaagcag aatgaaatct ctgctcctcc 240
 taataatgct gctgcatctc caaccttgtc catacataac gagaatcaat tgctagatag 300
 tagttctgat catcaagaga aacttgctgt tggcaccaaa gttcaggcag tttggagtga 360
 agatggggag tggatgatg cgacaattga ggcttatact ccaaagggtt attatgtaag 420
 ctatgacaat tggggtaata aagaagaggt tgatcctgcc aatgtaaggt caattcaaga 480
 aggttctgtt gatgctttat tagaagctga gcgagttgct gaagcaacaa aacaggccat 540
 caaacgaaaa attgcacaag ctgcatctat cgatttacag tctcggagtc taccta 596

<210> 6040
 <211> 489
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077a05d1
 <400> 6040

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 agtctcgaca catttcagta gataacattg tttggtttgc catcagtga cctctacaga 120
 gaatggttgt ttgagcatgt tacatacaat tgaaagggca tctagccgag tcggtgcata 180
 acctaatcat cattttcaac agtaccatct ttgaggtgaa aatgtttttc tctcttctgg 240

aactctgtca aacctttccc acttcccgtc acaccaacct ttccctgagg atcatcagga 300
gatttaaaaa tactctcccg ttttcttcca gagaagaaac caatcttctt tgcctttctt 360
ttggttgact gaaactgctg ccaagcattt tgccgctttt nntgtgtgac ttcaagttgc 420
tccatccgca tctntgactt aaagcatgta tttcttggcg tttgaagctt tacatctcag 480
gatcatcag 489

<210> 6041
<211> 352
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077a06a1

<400> 6041
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ttggtattgg gttgctgacc tttgctagtg ttatagattt tttgggtcct gttgtgtact 120
aataaatgca ggatagaaaa agtctatagg tgcctagaag aaaagacaat atatggtgtg 180
gagcaattac atttgatcac aagggaaggt gtgcaacggt ttgcaagata gcatagaaga 240
ttttgaagaa tcttaattgc aacatagtag cgcagttgca atgggggctc ctttatcagc 300
atggccttgg gataactttg gaacatacaa gtatctatta tatggaccgt tt 352

<210> 6042
<211> 362
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077a06d1

<400> 6042
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aaagaaaggt aagccatcaa tgaaccctca ccagagaatg gatgtaagag caagaaacat 120
acaaaagaaa gggcatcaag gcgagaaagt gcaaaaccga aacaagagat gcaacagaac 180
caaatttgag gcgaaaatga accccgaacc tctggaactc tgaaaaacct aagccacgga 240
ccgacaaagc gaccttgcca tgaggatcat caggagatcg aaaaatactc tcccgtacac 300
ctccagagaa gaaaccaata gtctaagcca atcctttgga tgacagaaac tgctgacaag 360

ca

362

<210> 6043
<211> 511
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077a07a1

<400> 6043

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ttacctcgta cacatcaaac aatggaagga gatgggtatt gcgggagttt ctttcagagg 120
tgcaagcctt acatagccat gatttctctg caattcgggt ttgcgggtat gaacataatc 180
accaaggttt ccctcaaccg tgggatgagc cactatgtgc ttgtggttta tagacacgcc 240
tttgctactg cagctattgc tccttttgct attgttctag agaggaaagt gaggcccaag 300
attacatttc tcatgttcat gcaaatttc gtgttgggtc tccttgggcc tgtgattgat 360
cagaacttat attatgcggg gttgaaattt acttccccta cctactcatg tgcgataagc 420
aacatgctcc ctgctatgac atttgtgatg gctgctattt tcaggatgga gaaagtnaac 480
gtgagataca gtagatgcca agcaaagggtg a 511

<210> 6044
<211> 518
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077a07d1

<400> 6044

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taagggtccac acataagggt ctaatcaaaa tacaaaaaag aaagaaaaaa aataagcctt 120
agttaatttt ccgaagaaag atgggtgagta cacaaaacaa aacccttttc aatttctctg 180
ctctcaatta aagaccctt ttttcattgc agcctctatt attattcatc cctttccttt 240
ctaattctaa ccactttaaa cttttggaac tccaatgggt acccttaact ctcttgaggc 300
ttcacccttt tgcattctca tgcgttggtt tgtttcagca tcttctacca cagtctccaa 360

cctcatccca ttttctgaac aacacttcaa tacctcaatg gttatctctg cctctttctc 420
 tttggtctcc ttgtgcttgc cccacagaac cgagtaaagt cccattacta tgagaatagc 480
 tccaatgacc ccttcaagaa tatttttttct gcaaggat 518

<210> 6045
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077a08a1
 <400> 6045

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 caggagaaaa ccctagaatc gagcttcgtt cgggacgagg aggagcgtcc caagggttgc 120
 tacaacgaat tcagcgacga gatcccagtg atttctcttg ccggaatcga cgaggtggat 180
 ggacgcagaa gagagatttg tgagaagatc gtggaggctt gcgagaattg gggatatattc 240
 cagggttggtg atcacggtgt ggatcaacaa ctctgtggccg agatgacccg tctcgccaaa 300
 gagttctttg ctttgccacc ggacgagaag ctctgttttg atatgtccgg cgccaaaaag 360
 ggtggattca ttgtctccag ccattctcaa ggggaatcgg cgcaggactg gagagaaata 420
 gtgacatact tttctgtacc aaaagagag agggactatt caaggcggcc agacacgcca 480
 gaagggtgga gatccgtgac tgacgaatac agcgaccaag taatgggggtc tagcttgcat 540
 gctcatggag gtgttggtccg aagcaatggc gtagagaaag ag 582

<210> 6046
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077a08d1
 <400> 6046

gcagccaata ataaagacag tgccacttat ttctatttat aatagaggca aatataaggt 60
 atacatagat gagccagcta gctaataaga cataggcaac tgaacacaac acatgatatc 120
 cccacaaagg ataaatcata agacgtacaa aagcacaag gtaaggacta ttattaattc 180
 atggccctta aaaaatacta aaaacaccaa gggggcatgc aatgatata tatgtaatta 240

ttattaatta agcaagaatc tccttcaaag gcttggcctc aagttttgcc ttctgatcaa 300
 gttcttgcaa atgcttttca ttctcaaggt cctgcaaata cttttcctta gccagcttct 360
 tcatecttgc aatctcaatg tccttgctca tcttcctcct gtacatttca gcaaaagtga 420
 ttgggttcctc catcacaggc ttctctcctt ctcttatctt cagagggtaa acagttgcat 480
 ttgggtgctgg gttntgaaaa gtggctatgg acaaa 515

<210> 6047
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a09a1

<400> 6047

tgaagacagt gttaatgctt gcggatcaat tgattaacag agttgaatat atgcattcaa 60
 gaggtttcct tcaccgtgac ataaagccgg acaattttct aatgggtcta ggacgaaagg 120
 caaatcaagt gtatgccatt gactatggcc ttgcaaaaaa atatagggat cttcagactc 180
 ataggcacat accatacagg gaaaacaaga acctacagg cacagcacgc tacgcaagtg 240
 tcaacactca tcttggaatt gaacaaagca gaagggatga tctggaatct cttgggttatg 300
 tgctcatgta tttcttaaaa ggaagtcttc cctggcaagg actgaaagct ggcacaaaaa 360
 aacaaaaata tgataaaatc agtgagacaa aggtgtcaac tcccatagag gtgctctgca 420
 aatcatatct gtctgagttt gcatcatact tgcgctattg ccgatcactg cagtgtgagg 480
 acaagccaga ttattcgtat ttaacgagac ttttccgaga cctatttatt cg 532

<210> 6048
 <211> 538
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a09d1

<400> 6048

agcttgtaaa taaattccat tcttaagggc agttttaata tgtaacatgc aggacagcgtt 60
 ggacctcatt gttaagaaac aagaacatgg tggtgtatca tggagcgtac tacaacttag 120
 gtctcatcta gtacagtaat taaatattaa aagaatttca gttgaattct cttcggcacg 180

tcttaagaac acgctacagt ggctgagaaa cctggtgaaa caacaattct gggggcagaa 240
 aaaagtccac ctttgtccaa aactgatatc aggagatcat gccattatga cctcaactct 300
 tgggttttctt tccataatgc ttgagactat tcttgaataa aagggtgatct tgcattctcag 360
 gagtgtcata attcagaata taacaacaaa aagacacaac ctttacttaa ttacttcctg 420
 atattgagga gctcaaagtt ccgcagagga tcatcacggc ctcttataga gccaccatgc 480
 gtataagttg cttggttggt gtcatacact ggttgaactc tgtgagcacc agatggac 538

<210> 6049
 <211> 542
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077a10a1
 <400> 6049

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 tactttttct tcttctttct cttcattttc ttcgctcttc gatcttcgtc cggggactgc 120
 tccgaatacc accaccacca ctgcgcgatg gccacgatcg gaggcttaca cgactcccaa 180
 ggctctcaaa acagcgtcga aaccgaagcc ctgcgtcgat tcgccgtaga cgaacacaac 240
 aagaagcaga attcgcttct ggagtttgct aggggtggtta gggcacagga acaggttggt 300
 gctggtaccc tgcattacct tactcttgag gctattgaag ctggtgagaa gaagctctat 360
 gaagcccagg tgtgggtgaa accatggcct gatctttaaag aacttcaga gttcaagcct 420
 gctggtgatg caccatcggt tacctctgct gatcttggtg tcaaaaagga tggtcaccaa 480
 ccaggatggc aatctgtgcc aacacatgac cctcaagttc aagatgcagc atatcatgac 540
 at 542

<210> 6050
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077a10d1
 <400> 6050

aaatacaaat ggtcaacatc cgcatttttt atgataactaa agtaatatatt acgttacaaa 60
 gttactaatg taacatcacc ggtagcttcc cagttaataa agggatacac acattgtaaa 120
 actacttatt tgccaaggca cagagaaaagg ggtaagcact agacatagat aagaacaata 180
 ttgctagggt gaccaaactt cagatcagaa ttaggaatga tcttggtcca tctgatttag 240
 atggaacccc ccttggttat tcttggtgtac ctctacctta aacttctctt ccttctgtcc 300
 cctcttgact ttgagaagca gattaaactt agcaaaatca tcaatgacct cagcctttgc 360
 atcagcaacc tcatgaagct cataggggtac tagtgaatta gacctttgct ggatgggtctt 420
 gatcgcatga tttgctgcat cctgaacttg agggtcattg gttggcacag attgccatcc 480
 tggttggtga ccattctttn tgacaccaag atcagcagag gtaaaccgatg gtgcatcacc 540
 agcaggcttg aactcttgga gttcttgaaa ttc 573

<210> 6051
 <211> 501
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077a11a1
 <400> 6051

ccaaattggt catccaattt gtcttcccag agtcatacta gtggtgttgt gtcaaagtct 60
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 actcatgtta agcataacca gccaaaacat acaaacaagg caccagtttc ggtcctccat 180
 tcacctgttg caaagcttcc cgcatacaat caaggaaaga gcggattcct ctatccaaac 240
 aacttgctta atgtgaaagc taacacaaag ggctgggtta gtactgaaaa gttgaaacag 300
 agaaacaagg tcaacgattc actcaatgag cataatcaag gtcctagaac agctaattgca 360
 aaaggtgcat taatgtctgg aggtaattct gtgagaggct cagccccagg tgggagtgga 420
 aatgctacca acaaaatcag gacagatcag tacaaccttc ctgattctcc acccaatatg 480
 atcatgcact tttctttgtc a 501

<210> 6052
 <211> 501
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077a11d1

<400> 6052

ggaagaacca aactgagctt attatgtgca aagaaagatt aaagaaaaaa gtaaattgaca 60
cgtgcttttc atagcaccct gtaacagcta tctcaccggg tccattccac ttccaaagaa 120
cttcttttctt ttgtagtttt gtacaattag gaatgcagtc accatttgcc cggataaaaa 180
ttattattat tttttctttt tctttttctt ttctcccttt ctaaagcatc agcagcagca 240
agaatttttg gtttagaact taaaatttga attcattagc tttttttttt cttactttgt 300
ggtcacagtg gcacatcgcc acaccatcgt gatcggcatg ctggcatggc ggggtccccag 360
gaatagcatc agccccacat gctattcagt cattcactct ctcaaccacc ttaggatcct 420
ccatgttctt acagatgata ggtctactga cccaagtgtg atgggtaatt cctctatttg 480
ctgtacactg gtatggggca t 501

<210> 6053

<211> 398

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077a12a1

<400> 6053

gaaacagtgt ttcattcattt gggtttcgca gaagagagag aaaccattt ctagagagag 60
aaactcgag tcgcagacat gtcttccttc gatgccttcg ccgacgactt gaacgtcaac 120
tcttcttcca ctgcgcagca cgacgatgac gaggacaact tctctggcta cggcggctac 180
tcttccttca ccggaggatt ctccgccgac ggagatgtcg ccgtcgatca ctccgccgcc 240
gcgtcgtcgg agatctacgg cttcactgat tcgaatcccg cttactctca gtctcccttc 300
gaatcggcca ccgtagagaa cgaaaacgga aacggatacc gcgacggcga ccgtgttttt 360
gtctccgacg gttcgggtgct ttctccgacg acggagat 398

<210> 6054

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077a12d1

<400> 6054

aaacaactga aaaatattaa acattgtatt tgtctatttg acaccaccag acagcaatta 60
ttccaacata tactctgtct aaaaggatgt actatttaaa cccatgatca ttgaatctcc 120
acgtcataat tgtaataat ggatttaatt catacaaaac cttaaagtta ataataataa 180
aatgcaaccg ataagcatta gaaactaata gcagggcaaa aagattcatt aaagactgca 240
gggtggagaa aggggtggca gaagaaagat tgagggggaa ccaaagtatc atagacaaaa 300
tcatgcagca ggctgctcct cagtggcagg agcttctttc tggggttctt ctgtgaagcc 360
attagagggtg gcatcctttg gctgtgaatc aagtgcacct tctgctgcag atccagttgc 420
ttttgatgct gctttctctt ttgcatcctt attatctttg gcgtcttttag caagagccgg 480
tggtggagga atcatgtgag gtgggggtgta tgcttcagct ttaaca 526

<210> 6055

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077b01a1

<400> 6055

ctcccacaaa cgaagcccta gaacgccatc tcgacccga tccaagcgt tttctcctca 60
aggcctcctg gtgaccacaca tcgcccacaa aagaatcacc aaaccgaat tcaataccgg 120
gtcgacccga cacagaacta tagcgtctga ccaccacctc actctccaag ccctgaattc 180
gactcactgc aatgtagagt cttccagggg tattaaccct aattcggaat cccgacacga 240
cggagtgatc cacggcatct acactctgct catccctcgc tcagaccaag acgaattcga 300
ccgtcgtcgg aatctgatct ccatcgccgg ggaaaaaccc gaaccatccc cggaggtcga 360
ccgcgaaacc caccgtataa agaaaccggc tcctgtatcg gcggcggggg ccccgccggc 420
tctcccgatc tacgacgcga tggcgctgt gccatcagtt gcaccggcgc cagcgcttgg 480
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<210> 6056

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077b01d1

<400> 6056

gaacttaata gactgtttac tttttatcaa taaatcaaca attttcatgt aataaagaaa 60
ttatacaagt gccatcattt tacagaaaat gaaaaataaa tacaaatggg aattccttga 120
aaaagaaaaa aaaaagtatt acaattatat cctgggtaat tgtgctaagg ggaataaaaa 180
aaaatccaaa acttgacttt gctttgttgc tctgatagca cattgcttgc acccgcgccc 240
ctttcctgag tatttacctg ttgggcgggg cacagctgag accaggtatc agcagcctgc 300
tgataggatc gacagaacat gagcatgagc tcctgattta caatttttta agcaagaaca 360
tgagctcttg ataggatcaa atgagtacaa gcaacgtggc ccgacaactt tgtgccagat 420
gactgacaac tggtcaccat ggcaattcct ggtggatgct tct 463

<210> 6057

<211> 280

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077b02d1

<400> 6057

atataacaag atttacttaa caaaaccaac cacgatggat acaattaatt ctctcctatt 60
tctgcccccc accaaaatcg ttgagccatt caccatatga tatcaagcat agcctctcct 120
cggttatata cactcatctc tgtacacact cgtcaacgcc aaaagggctt taaaaatgta 180
aatctattac acctattgga aaaaacagat gtattgagat attataagct atgctctagc 240
ggactgtaca tcattcatcc ctttaccac caaaagaaa 280

<210> 6058

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077b03a1

<400> 6058

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gagagatcat gccgctctgt gatgagcaaa tcacaccaac aatgcacata tcgtgtgtac 120

atggaagcaa gaccattgga ggaaggtctc gccgaggcca ttgtcgatgg caagattgga 180
ccaagggatg acccaaagag tcgctccaat atcttcggag aagagtttgg ctggtacaag 240
gatctcgcca cgaaaatctt gttctttggc cctgagaccc ttggacccaa catgttgagg 300
gatatgttgt cagaagtcca gtccttgaat gaaatcaatg attctgaggt tgctctagtt 360
cagtgggcat caaaagaatg agctctggcc gaataataca tgtgagccat ttgctttgaa 420
gcatgtgatg tagttatgca cgctgatgct atccacatag gaggaggtcg aatcatccct 480
actgccagga gagtattct 499

<210> 6059
<211> 450
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077b03d1
<400> 6059

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caaactccca ttgagaaact ttactacatc taattaaaga tgaaattgat taaaacataa 120
cttaatttca actcacagcc tacaaaatta caaattaaac catgaaattc aaaacagaaa 180
atcctatgac ataatgaaaa tgcaaatcca caaaatctgg tgctgaacaa tgaaagcaaa 240
gcaagctgct cctttttagt tttgtgcact atccatgact caaagcatgc aatcagttct 300
tgcaggcagc ctctgaaga aattcagagg caccgaagga angcttgtgg cggaacctgg 360
ggtgtctcaa cacatagatt ccagtgaaaa gtgcgacaat ttggaaagga gtgacataga 420
gtacaatggc agcaaccaga cagaaaatca 450

<210> 6060
<211> 624
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077b05a1
<400> 6060

gtaatccagg aaatttttgt aagtgagctt attctcttgg gttatttagc agtaatatat 60
aaggattaga tacttcaatt aggaacatt gtttatgtcc tcagggtggg aagaaaaatc 120

agattcaaat cagatgaaga gtgaatattt tagaattaaa actagcatta tattcctgta 180
 ctgaaataat acgataaagt catgattaca tctagctact tctctgtatc catattaatg 240
 tcattttttt gaaattttca tcatttatta cattctatat cattttctct catttttaaag 300
 ataaatgggt catgtcagta agtctctatg actttatgaa tgccacatga tagataaaat 360
 gattgttttt gaaagatggg aaatttgagc atattattta gaattttatt ttatttggtta 420
 taatctcatt aaatgaagt gtggcacatc attcgatgac aatgtaaaaa accattttat 480
 attgacaatg cgtcaaaatt aatccattat aaatcctgtt gactggcttt cttactgggt 540
 ttctattttt ttagagctat aatgggtttg caattatcat actgctctac tgaagagcct 600
 tatattatat ttgcatcatt cgca 624

<210> 6061
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077b05d1
 <400> 6061

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 atgggagttt aaaaggggtt taaagggcag ggggttaaagg gttaattcca aatccgggga 180
 ataaccattg gcccaaaaat tagtaatacc ccccatatcg ggcaacacaa caataaaaaa 240
 tttgaaagca caggttgggt atccaactta ttttggaat caggttttaa gcccgcccat 300
 ttaaaatttt tgaaaggcgc gttattttcc caaaaatcca cgtccctaaa aaaaataaaa 360
 actttttcta taccctttac tttaaccaca ttcggcccat aaggaatttt 410

<210> 6062
 <211> 516
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077b06a1
 <400> 6062

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ccctttttgc tcctttcttct tctttcttctt cttcttcttct ttcattactc ttccttgctc 120
 cactctcat attatctttt tctgaagaaa cacataatca tggagggggtc tcacatgggg 180
 ttgttgctct tcttttggtc ttccatgctt tttgctgcct tcgctgctgc ctctccaga 240
 aacttgccca taataccctt tgatgaaggc tacgcgcctt tgtttgggga cagcaacttg 300
 gtcacccata gggatggcaa atcggttcat ctttctctg atgagagaac aggttcagga 360
 tttgtgctgc atgatcttta ccttcacgga tatttcagcg cttctattaa gttgccttct 420
 gactacactg caggagtgtt ggatgccttc tatatgtcac atggtgacat gttccagaat 480
 aaccatgatg aaatcgactt tgagtttttg gggaac 516

<210> 6063
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077b06d1
 <400> 6063

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 actccgaagg agggactttg tatctgactt tgtcatagca gtaggagtat gtcattgtgct 120
 tcttctgaa attctccatt ttgattcttt gtgctgggtg aacaccagaa gaaggaattg 180
 ttgtagttgc ctccagaactt tgaggagcat tgtcacactt ggccacgtgc tgctcaattg 240
 gatccactgc acaaccgtgc agaacaaggt cagagaattc agcaacatag ggtgcatact 300
 tgtagttaac cctgtatttg ccccatgg tagcccaatc agatgcatcc catattgttg 360
 catacaaagt cattggctta gaagggaat cccctccata gattctgttc gagtcacttc 420

<210> 6064
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077b07a1
 <400> 6064

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ttccttacct ttgaccagag acagagcagc actcacattc acaacgaagg tttcctattc 120
atcagacatg gtgaaggcaa tcagagttca cgaactcggg gccctcaag ctctgaagtg 180
ggaggatgtg gaaattggag atccaaaaga aggcgaggtc cgtgtgagga acaaagccat 240
tggggttaat ttcattgatg tctactttcg caaaggagtt acaaagccc cttcttttcc 300
cttcactcca ggtatggaag ctgctggggg tgtgacagct gtgggtgctg gactcactgg 360
taggcaggtt ggagatcttg tagcttatgc aggtcaacca atgggttcat atgctgaaga 420
gcagatactt cctgcanata aagtagtccc tgttccttcg tcaattgacc cagctgttgc 480
agcatgcatc attctcaagg gcatgacaac tca 513

<210> 6065
<211> 434
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077b07d1
<400> 6065

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tgggaaacaa catacatttg ccctttcaat tcttaataaa gagttctttt caagaggaag 120
caaaccggga cttgggggtt aacacatacc caactgagag gcttaggggt tcaacacaac 180
cgaacctgac gtatttcaat tctccaagtc ttcgggggct tttgcacctt taaacaatgg 240
gaaagtttga ttaacacgga cctttaaccc accgtaagca acgtagcaa acaccttttc 300
agcagccttc aacagcttat ccgagggggc aacatttttg attagactag gcctagtcaa 360
gaaaagggat tttgcaacca gggaagatta tggaaccgga ttaggtgaac caaatgactg 420
cccaaaactt acca 434

<210> 6066
<211> 530
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077b08a1
<400> 6066

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aaccgatcaa gatgttgac aaagagcatt tgtacagagt gctttttgca gatgaaagt 120
 ccaaattcaa cccggcctac acaatgtccc ttctgcaaaa cggcaaatta tgctgtggag 180
 tatcgtggtg tgaaatctaa agaagagaag ggattggaac agattgaaga gcaacgtgtt 240
 atagaggcaa aaattaggat gcggcagcag gaacttcagg atgaagagga aagaatgcac 300
 aaaagactgg aaatgagctc ctggaatgtg aatgtggcag ttgcagatgt tgaatacagt 360
 tcaaatgcag tgtcttcac ttcagtttct gttgctgaaa atgatgaaat tggttcttct 420
 caagactcat gtgccacatc agtggttaga gcaaatgcaa ccactatgac caatagagat 480
 gatgaatttg acgttgacct tgaggacatc atggtcattg aagcatttgg 530

<210> 6067
 <211> 518
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077b08d1
 <400> 6067

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 caaagacaaa ctatttacag aaaaccaatg agggggcagg agaggacatc gagcacaagt 120
 aaaaaaatg gcattaagca gcaacctttc accaactaga atcattagtt ttcttttgat 180
 acttatatat ataaatttgt gagaagagat cactacctga tccttgaaca aattgcatac 240
 gagtgaactt cctcaaatt ctcaaccttg gacttggctt gtcaaatagc caaggcaagc 300
 atcaccaatt taagaaagat taaaccagca cctcaaccaa aaactactgc caagaagcac 360
 tctgtccact tgacatggct cgagcttcag ccaagagac agccatggcg agcatcatct 420
 gtcctcaaa actctcgga acaatgggtt ctgtggcact ttgaaggctt ccatcattgt 480
 catcagaccg tggcanagat gatagttcac cacgatct 518

<210> 6068
 <211> 534
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077b09a1
 <400> 6068

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ctcagccaca acagccaccg caaccacaac cgccaaacat gacggtggga cccaccatgt 180
acccttcgat gttgtccccc gtcaccgcca gattcccatt cagcagcagc agcaacaaca 240
atcctcctcc ttcggagcct ctcaacaacg acaccaacga caatgataac agcgcggttcg 300
aggcgttgaa gccttgccgc ctggccgcct cggaatcgtc gaagaagaag cggggccgcc 360
caagaaaata ctgccccgat ggcaacattg cgttgggcct cggcccaacc catgctcccg 420
cttctccgc cgatccttcc gccaaaaaac atcgcggtcg cccccctggt tccggcaaga 480
agcagatgga cgctcttgga attcctggaa ctggctttac tccccatgtt atca 534

<210> 6069
<211> 523
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077b09d1
<400> 6069

gtaacaagca tgggaatgta atattctcaa gtgcacatta ctgagaatct tccttcataa 60
cttacgacaa acggcttgta acaaataattt tatatccac gtcaaggaat atgctgctgc 120
tcggttaagg gactcatatc taatgaacgc aaccaaacgc tataaccgct atcactgttt 180
caattatagt ttgaaaatcc taatccacgg gaaaataaag gtatgtaaata aaatttagac 240
cttaagatag attctcctaa aatcagtcct aaccaaacc aatgatgcat gttatatttt 300
ggaatttgac ctctagctac tgctttgaag aatcatcatg ccaataccct gcttctgcag 360
agttggactt aaaaacgcat catcactgct gagtatggcc agcccataat tgatgttggt 420
acatcggcat ggtatgaatc ggctggctag cattattatc gtatagtcca gggcctcctg 480
gccctgact aaaatgacta ttctcattat cttcagatga ctc 523

<210> 6070
<211> 566
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077b10a1

<400> 6070

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agaggcactg gcgcaactgg agccacgacg acgaaggcga aggcctccca gattcggatt 120
ccgacacgcg ctccagccgg agattctctc tcacgcgcct catggcaatc tttctcttct 180
ctctcttctt cttctccctc atcttctctc tcccacatcc tcccatccaa tcagcttcaa 240
cagcaaagac tctgcaccaa ttcaagcaaa ctcaacaagg taacgttgct gattctgttg 300
agttgcacaa agataaacta cttgggtggc ttatagcaga tggatttgat gaacaatcat 360
gtctcagcag gtaccattcg gtcacatata gcaaggact atcgggaaat ccttcatcat 420
acctcatttc tagattgaga aaatatgaag ctctccacaa agaattgtga ccttatactn 480
gaacctataa tnaaacgggtg aaagatctga ggtctgttca tgntagtgag tccccagcat 540
tgtaatatgt ggtatggatt tcatat 566

<210> 6071

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077b10d1

<400> 6071

ctatagggaa caatgtaaat ttaaaatcaa taattaattc tatcgtacaa caaagtttgc 60
aaaacttgta agctagtttt gacagtcattg atagcattca tgaccatata gctacttatt 120
gccaaactatt actgtctaca agcttaagac cccagctcat atcctcacag tgccttacat 180
gtggaacaag tgcaccagta tcagttcctc tcttagcctt acaatcatag aaggaggagg 240
catggaagca tggctccatc gacatggcac gttgacaagg aggatcagga gctgttccat 300
tctcgggctt gtacagtatc cacggtttca acccttcaag cccctgcgcc acgtagccga 360
aagtagacca cgagctcgtg accaacatat ccatcaagct caagaggtaa atttctgccc 420
aagctttttg gttgtgcac tcttctctctg tttgttgata ccttcatgg cttggctggt 480
aaatgccaac aacttctctt gtcacagttg ggtgttccca aaacatgtct ctcacctttt 540
caaaat 546

<210> 6072
 <211> 534
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220077b11a1

 <400> 6072

acaagaactc tccaaggatc ctcttccca cgagattctt tgggtgggaaa aatccaagag 60
 gtttgaaatt tgaaggcagg gaagatggat tatttcaatg caccatgaag aaaccatctc 120
 tttgggtccag ggccggttaa cattccggac cagatcatcc ggtccatgaa cagaaacaat 180
 gaggactacc gttctccagc aattccagct atgacaaaaa ctttgcttga ggatgtcaag 240
 aagattttca agaccactac tggaacccca tttctcatcc ctacaactgg tactgggtgct 300
 tgggagagtg ctctcacaaa cacactgtct cctggggatc gaattgtatc gttcctgatt 360
 ggccaattca gcttgctttg gattgatcag cagcaacgcc tgaagttcaa tgctgatgtt 420
 gctgaaagtg aatggagcca tgggtgcttag cttgatgatc tggaatcana gatagcttca 480
 gataacttcac acactataaa ggcaatttgc attgttcaca atgagactgc aact 534

<210> 6073
 <211> 512
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmfl02220077b11d1

 <400> 6073

acaggacaat aaaagaagca atgcattaaa gctgaaagta gaaagtacgt tcatcttcaa 60
 aggagtgtaa aagagggtaa tatatatattt acagaatttc tgaaagagca gaaaaaagga 120
 agtaaagaca agaatgattt gtgactcaaa tcctggaagg gatcatagga atagtgttct 180
 gtaagtatgc actggcagca gcaactccac ttccaagctt tacaggataa cccacatctt 240
 tgagtatcat ctctacacca gctagacatc ccaacagttg caactcattc aagtggccaa 300
 gatgtccaat tctgaaaacc ttcccagcaa ctttgttcag tccaagacct aagctcaaat 360
 tgtatctctt ccatgccctc ctaactattt cagtactatc aatgtaagca ggaacaagaa 420
 cagcagtcac agtgtcactg taccactctt ctttttgggt gcaattcttc aaaccccatg 480

cctttacagc aagtctgggtt gctttgccta aa

512

<210> 6074
<211> 527
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077b12a1

<400> 6074

aacaaagaca aaaaccgctc tcttctccaa cgctgtctgt caccttaaaa aacaaagttc 60
cacttcatca gattcaacta aaccacacca ttcgcatcaa cacagcactt gtttgttccc 120
aactccgaaa aatatcatgc tcctaacgta aaatcctcgg tttcaacggt caaccgcat 180
ctcaaaaaac aaaactatgg catcactctc aggcatattgc tctcttccc cgactctcaa 240
aaaattccca aaccaatccc catcgttgac cgaccctctc cgcaaagacc acgtgtcctt 300
ccccgcacgc ctcgccgatc ggaccctcag cctcgcgccg ctccgtgcgg tggctcggga 360
ggtttccgac ggaacgttgg cggcggcggg gaagaagggg ttggagaagg atccgcgcgc 420
gctgtggcgg agatacgtgg gttggctata ccagcacaag gaacttggga tttacttggga 480
tgtgagtcgg gtcggttcaa tgatgagttc gcttaggaga tggaccc 527

<210> 6075
<211> 497
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077b12d1

<400> 6075

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cacgtagtcc caattcagaa caccaaaaca ctttcaagaa tttgtcttaa cagaaatttc 120
cactttcggt aatgatggag attcaacatt gaaaccaaatt tattgcaggc aacttctctt 180
ctgttggtcc gtgtattcaa acacaattgc aacattacca aaacatgaat tctggtagtc 240
gtctaactca tgcatacaac ccatcaatgt tacattcccc aagaaaaacc ttgatgctgc 300
gtggtgaacc acagctgcct tcgacaatca atgctctgtc attggcagcc atgtgtgcga 360
taatcttgta aatcatttcg atatcttcag gagcatggca acggtctgct acttcttcga 420

gggtcaatgg ttctacaggt tctttgcagc ttgcctcatt tagcactgcc aacactcgct 480
tctgaagtgc tagtact 497

<210> 6076
<211> 521
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077c01a1

<400> 6076

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ggtttggatga gttacccaag agaaaggatg aagagagagc gccagcagct tggttccaac 120
gcaagaacct caagctgcgg ttattcaagc ggaaaatcga atctttggga ggaagaagga 180
ggcatggacg agcttcttgc agtgggtgggt tacaaggatga ggtcatcgga catggcggaa 240
gtggcgcaga agctggagcg tcttgaggaa gccatgggaa atgtccaaga tgacctcagc 300
gacctttcaa acgacgccgt tcattacaac cttccgaca tctccaactg gctccaaacc 360
atgctttcca attttgaccc tctccctcc gagagcccg agaaggactc cgtctcgctg 420
gactacgac tcaaggctat tccgngaaa gcaatctatg gaggtggtag tgacgcgcta 480
ccaaacccta tgcgcgtgag aaccgactag tcaacgcgcg c 521

<210> 6077
<211> 458
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077c01d1

<400> 6077

atacaacgtg gagtaattta atcttacatg tttcaagaga caatgtccaa cttctgaaac 60
agacatattg acggtataat aacaaaactg aaagttggta acggggaaaa ggtataagaa 120
atctcaacaa ggggattgaa atttattcat gcaaatttat ggttcattct acctccatag 180
gccaatttgc tctcatcaga tcttcgacct gctttggttg ccacgcttat tctgcttgag 240
ttatggcaac agtcggaact tttggaaaac ttgcgatcat gagagctaaa cttcatccca 300

ggatagactt tagcatcatc ctcatcagat aagctttcat catgcataga gccagagccc 360
 ctaccctcaa attacgttga tcttgattta acagcgcgat gggttaagca tggatttaga 420
 tcattcagta ataggctcgtc agattgggtca tcagagct 458

<210> 6078
 <211> 528
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077c02a1
 <400> 6078

aaagattttc cttgaccatg gggcaaaagc atttagtgac ggtgttctgt ttatgggctt 60
 taacatgttc ctttcttcca tctttctcct ttggaattct gagaattggg ttgaagaaga 120
 gacctctaga tcttgatagt attaattgctg ctagaaaggc aagagaaggt ctaagatctg 180
 taagaccaat gatgggtgca catgatcagt ttattggtaa gtcaaaaggt gaagatatag 240
 tacctttgaa gaattatttg gacgctcaat attttgggtga gattggaatt ggcacacccc 300
 cacagccctt cactgtagtg ttgacactg ggagttccaa cttttggggt ccatcatcaa 360
 agtgctactt tactcttgct tgctataccc ataattggta cacggctaag aaatcaaaga 420
 cacatgtcaa aaatggaact tcattgtaaaa taaactatgg aactggatca atatctgggt 480
 tcttcagtca agataatggt aaagggtggca gtgctgttgt caagcatc 528

<210> 6079
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077c02d1
 <400> 6079

atggtaaata aaattcattt cttgggtgaaa aaatgacaaa taacatgaat tagaagcgca 60
 tttttatcca ccacattatt gggctcagac taagcaaacc taaaataaaa ggactcacga 120
 aatatataac tataaaatct cacaaaacaa tctatgcaaa caaaatcaca ctgtctactt 180
 aatttctaag gctctaattt aaccactttt ttgggttact tcttcatagc tgcacttaag 240
 cctgtataat gcaattctag taataacagc actttgtctg tgatgatttg tatcttcttg 300

atgatggatg gcaatgaaat cttggaaagg acttttttct ttccgaattg aaaatgattt 360
gagctaaaact agctgtagat gattttggta ct 392

<210> 6080
<211> 462
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077c03a1

<400> 6080

ggctcgaggt tttgtttatt tgaaattaac atagttgcaa agatgtttgg aatcatcgga 60
ggaaacaagg gtcacaagat aaaggggaac ttggtgatta tgcgaaagaa tgtgttggat 120
atcaacagca ttaccagtgt taagggtgtc atcggaaccg gcattaacat cattggagga 180
gtcgtcgaca ccgttactgc tttggcgtcc cacatctcca tccagctcat tagtgccacc 240
aaggctgatg gacatgggaa aggaaaagtt ggaaaggcta caaatttaag aggacaagtg 300
tcgttaccaa ccttggggagc tggcgaagat gcatacgatg ttcattttga atgggacagt 360
gactttggaa ttcccgggtgc attttacatt aagaacttca tgcaagttga gttctatctc 420
aagtctttaa ctctcgaaga cattccaaac cacggaacca tt 462

<210> 6081
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077c03d1

<400> 6081

agaacactta acagcaattt atacaaacag aatttcttca ttaacactta acagcaaaca 60
cgagaacatt caatcacccc aaatacataa ctaaccata cataggtaga tgaaggaatc 120
atattccttc tattcacttt tattgaaaac cagggaaagt actgcaacaa ccatagagcc 180
cctagatgga gatactgttg ggaattcctc tgaaagtcaa tccctcctca ctagaaggat 240
agagcaaagt gtaaggcatt ttagccggcc cactgcggtt tctcaacgtc tcgtccttga 300
tcttctgtat aagcttttgt tcaatctctt gaagcttctt tccaaacctc ttgaaggcct 360
ctagtggacc agcatcagaa gtccaatagt caccaccatc tctctcccca aggtagaact 420

catcagatgt gtgccttgac aagattttta taatt

455

<210> 6082

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c04a1

<400> 6082

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ccccgcagag cttctgcggg aaaataagag gatgctggac aaatcaatca gagaaattga 120
gcgtgagcgg caaggattgc aaacacaaga aaagaaattg attgoggaga taaagaaaag 180
tgccaaacag ggccagatgg gagctgttag agttatggca aaagatcttg ttagaacaag 240
gcatcagggtt gagaagtttt ataagctaaa atctcagctc caagggtgtat cactcagaat 300
tcagactttg aaatctacac aagcaatggg tgaggctatg aaaggcgtga caaaggccat 360
ggggcaaattg aataggcaaa tgaacttgcc atctttgcag aaaatcatgc aagaatttga 420
gagacagaat gagaagatgg aattgacatc tgagatgatg ggagatgcaa tagatgatgc 480
tttggaaagga gaagaagatg aagaggaaac tgaagatcta gttaaccaag tccttgatga 540
gattggaatt gacatc 556

<210> 6083

<211> 507

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c04d1

<400> 6083

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ttcatctaatt cctggcaciaa cttcccaatt atgctatata tggtacatat gagcatcaat 120
ttccccagta aaactggagt ccctgatatc atatagagga tagattacat ttttcttaaa 180
ttgtctaacc ttgcctgtaa atcactatct atcccgccat catcattccc agtcgtttca 240
acttgaggta cttttgtctt tgcagccggg gcagcaacag ctgatgatgg tgcatttaca 300
agctcttggg tgatgtcaat tccaatctca taaggacttg gttactagat ctttagtttc 360

ctcttcatct tcttctcctt ccaaagcatc atctattgca tctcccatca tctcagatgt 420
 caattccatc ttctcattct gtctctcaaa ttcttgcatg attttctgca aagatgggca 480
 gttcatttgc ctattcattt gccccat 507

<210> 6084
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077c05a1
 <400> 6084

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 ccctaaataa gaaattttga cgacatgggc attgacaagt gtgggataaa taggaatctg 120
 gtgtgattaa ttttaggttt accaattatg tgtgttgtgg agtctgatta gctagggttaa 180
 tcttagtcga tttcagatgg ctttctcata tctagtttac aatgctatat tatttaggtt 240
 ttttaagcac atactcctaa gacgcgcatt atcaattatt aaataatata tggaaagaat 300
 ttgcgatggg 310

<210> 6085
 <211> 310
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077c05d1
 <400> 6085

cccatcgcaa attctttcca tgtattatct aataattgat aatgcgcgtc ttaggagtat 60
 gtgcttaaaa aacctaaata atatagcatt gtaaaactaga tatgagaaag ccatctgaaa 120
 tcgactaaga ttaacctagc taatcagact ccacaacaca cataattggg aaacctaaaa 180
 ttaatcacac cagattccta tttatccac acttgtcaat gaccatgtcg tcaaaatttc 240
 ttatttaggg gttacaatgg gcaatcatca tgcattgcta ctgaaggagg agatcacgga 300
 gcacactcac 310

<210> 6086
 <211> 147
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c06a1

<400> 6086

cttatcttgc aacagaccaa tctgcacttt gattctatga ttcattatca gtttgggggt 60
ctcgctaaat ctgaaatttt ttctaaaaaa aaacttttgg ggattcgatt tattctggct 120
gggcttgact gaaattgtgc ctatcac 147

<210> 6087

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c06d1

<400> 6087

gacatctaataat aatctcgtga caattttatt gctaataagc tataacaacg tccaaaactt 60
caacaacgat ctgctgcatg ttctaaaaca agtaccacaac tacaacattg tctaaaagag 120
aagctgacat aaatgtataa catggtaaatt tttctaaatt ctgaatctaa gccagttttc 180
tacttttggtt gggttacaaa tgtgtctaaa cttttaataa aaatctaata accaaaagcc 240
atccatccct tcttttcttt cggtagagac tgggaggaga gtcctgcata ctgtttgtcc 300
ccattgattt catcctcaac atgggtgtct tggatggaca aacttaacca aagttggtaa 360
tcacctgtaa gtgtacatgc aagagcctgg gcacaaacaa actatggacc tacattctat 420
ctttttaaag tgcaataatg ccatgaaaat ggacagatag tgtaccccag tgacatgccc 480
tgccatgccc gggcttagaa cgaat 505

<210> 6088

<211> 385

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c07a1

<400> 6088

cgctctccga gatggccgcc atcgtctccc tcacgcctc cgctgtctac ctcatggcct 60
tcttcggcat taccttcata ctccacccat tccttaattc ccgttcttct cctgacgatg 120

acatcgacct cgacattccc aaattacctg tccccactcc ctgctccgct gcccttcctc 180
 caaaactccc tcttccccca ctccctcacc acgacgagga catcgctcctc gccgtcgtgt 240
 ccggctccat cccctgctac tcgctggaat cgcggctcgg cgattcccac cgagccgcgt 300
 caattcggcg cgaggcgggtg gagcgatatca cggggaggtc tatccaaggc cttcccgcgg 360
 aaagctttga atatgactcc attct 385

<210> 6089
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c07d1

<400> 6089

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 gagaccgaca cacatcacat acatgtgatg aaaacaagtt tttcaacaaa agaccacaaa 120
 aaaaaataaa agagtaacaa aactaagtct tattcatgtt ctgtacacat cagaaacaga 180
 cattattaat gaagtactgt aaatgcagggt ttatctccca ccaacacgaa ttaattgtcc 240
 ttctgaagct aataattata caattgcatt gcaccccttg cttttactat tgacgataca 300
 aatttgaagt tcttgtccag ctaggaggca attttgggtga tacccttgct agatctgttg 360
 tatttcatgt ggctattaac aagttggcct gctgcaattg cagacatgag tgagagttcc 420
 cctgctagga ctgaacctgc tactatgggt gctagtaacc tagaatttgc acctggggac 480
 tctttgctcg caccctttac tcctaataaa ttaaggcatg ctgactg 527

<210> 6090
 <211> 271
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c08a1

<400> 6090

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 ccgtcggcaa caccttcttt ctccacccat tcactcacac ccggattatt cctgaccatg 120
 acttgaacct cgagatcttc aaatcgctg ttctcacatc ctgctggcgt gcgctgtctt 180

cgaaactgcc tctttcgcta ctacctcacc gcgacgcgga catagcactc atcgtcgtga 240
ccagattcat cccctgatac tcgtagaat c 271

<210> 6091
<211> 481
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077c08d1

<400> 6091

acatataaaa cattcacgag actataatct cacatccttg atacaggggc tttatatgat 60
gagaccgaca cacattacat acatgtgatg agcacaagtt ctacagcaaa agacctaagg 120
gtccatttac agattaacct aactagagcc taattcatgt acggtacaca ttatgggtcat 180
acattattaa tgaagcactg taaatgcagg ttaatttcct accaacacga attaatgggc 240
cttttgaagc taatgatttt acaaatgcat tgcattcttt gctattacta ttgacgatac 300
agatttgagc tatattgtgc agctacgagg caatactggg gatattcttg ctaggatctg 360
atgcatttta tggggctatt aacaggttgg cctgctgcta tggcacacat gagtgagagt 420
tcccctgcta ggactgaacc tgctactacg gttgctagga acctagaatt tgtacctggg 480
g 481

<210> 6092
<211> 555
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077c09a1

<400> 6092

gtggaatttc cgccgccatt cgaagctaca gcgatggcca taaccgccac catttccgtt 60
cccttcacat cccccagtcg ccgcactctc gcctccgtca atagcctctc tccgcgttct 120
acccgatcca ctttgccac accgcaacgc actttcaaata accctaattc gcgcctcgtc 180
gtgtcttcca tgagcaccga aacagccgtc aaaacttcat ccggctcctt cctcaaccgc 240
aaggagtccg gcttcttcca tttcgccaag taccacggcc tcggaaacga cttcgttttg 300
attgacaaca gagactctc cgagcccaag atcagtgtgt agaaagcggg gcaactgtgt 360

gatcggaact tcggcggttg agctgacgga gttatctttg tcttgcttgg catcagtggc 420
 accgattata ccatgaggat ctttaactct gatggtagtg agcctgagat gtgtggcaat 480
 ggagtgcgat gctttgccaa atttgtttct cagcttgaga atttacctgg gaagcatagc 540
 tttaccattc atact 555

<210> 6093
 <211> 533
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077c09d1

<400> 6093

aaaaacaagc agaaagtcca cctttcatatc aaatattatt cagcaattcc taattccata 60
 ttgggtttta caatgggggc aacatattaa aggggcaaag atccgtaata aactacatcg 120
 gctgagcctg tcatataaac atgattatct tcttccctcc attcaatctg aagaggctct 180
 ccaggtagat caaccgtgca attcctccca gcacgacct taagaactgc tgcaacaaca 240
 gtagcacaag ctccagtcc acaggctagg gttgctcctg ctccccgctc ccagacacac 300
 attttcaagt gagaattaga caacacttgt acaaactctg tgtagttcg tgcagggaac 360
 acctcatgat gttcaaattt tggggcaatt tctgctagct tcaattcatc aacaagcaaa 420
 ttctggcttc cttctctact gaaagttaca cagtgtggat ttcccatgct gacacaggtc 480
 acatgccaga taactccatc tacaactagt tctgatttaa caacagcatt atc 533

<210> 6094
 <211> 574
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077c10a1

<400> 6094

ggtgagtaat gtgatcagta acaagtacaa tggtaatatt cttcataaca aagagatcaa 60
 caacaacacc aacaatgaaa gcaacaacac aaatgcaacc gacaaaagg ttaagacctt 120
 gcctgctgcg gagacactcc cgcgcaatga ggtgcttgga ggatacatct ttgtctgtaa 180
 caatgacaca atgcaggaag acttgaaacg tcagctatctt ggtttgctc caaggatctg 240

agattctgtt agggctataa cacctgggtt accattatth cttataact atactactca 300
tcagctgcat ggtatthttg aggcagcaag thttggtggc tctaacatag atccaactgc 360
ctgggaggat aaaaaatgca aaggcgaatc aaggtthcca gctcaggtaa gaatccgtgt 420
caggaagctc tgcaaggcat tggaagaaga thctntcagg ccagtattgc atcattatga 480
tgggccaaag thtctgtctg agctgtcagt tccagagact ctgggatctg tggacctatg 540
tgaacaagct ggttcagcag cataagcaag aatc 574

<210> 6095
<211> 614
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077c10d1
<400> 6095

agtaatacat gaagctthttg acttcaatth thttcttggg tcaacagatt catgtthttag 60
cagtacaaac agtagtctct ttgattgcat accaagtctg tactthttact taatcataca 120
aaggtattaa atgttcatgc aaatgctaca aagcacctth aaggggatag ataccacaac 180
cattthttatt caccaacaaa ggggtctctca ctctcaacac gctccctthta cttccccaag 240
aagatgatga tccactthtc aagcttacgc ttcacggaaa atctgccaaa accacacagc 300
tggcacacca aaacctacta cctatthttgc acattcattc cttgtgogat tcttgcttat 360
gctgctgaac cagcttgthc acataggtcc aacagatcca gagtctctgg aactgadagc 420
tcaagacgaa actthtgccc atcataatga tgcaatactg gcctgaaaga atctthttcc 480
aatgccttgc agagcttctt gacacggatt cttacctgag ctggaaacct tgattgcct 540
ttgcatttht tctctccca ggcagttgga tctatgthtag agccacccaaa acttgctgcc 600
tcaaaaatac catg 614

<210> 6096
<211> 341
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077c11a1

<400> 6096

aaacaattca tgactgaatc acaaagtaac cagtaccacg agcaagtggg ggtgatctca 60
cagaaaaagc taaagaggag aagagtgtgt gtgatgggtca caggagcagt gctgctactg 120
ctcattgtgc tagtcatagt ggcaattatc ttggccttta ccttgatcaa gaccaaagaa 180
ccaagaactc agcttgtgtc tgccacttta gaaggatatag cacctcgtct cacacttgct 240
gccattgacc tacaaatcaa tgtcacactt gacctcaagg ttcgggttga aaacagaaat 300
cgtgctagtt tgaagcatga atggggaaag agtgtgttgc t 341

<210> 6097

<211> 390

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c11d1

<400> 6097

aattcaggtt aagcttatgt ggaaaatttg ttatacagca acaaactaca tatatgattg 60
tataaacacc aacaatggag gggccacac aacaaggggc tacgaaccac caaaccagcg 120
agaaacgaaa ggagaagcat gcaccaccaa atatggcatt tgccggaagc acaaagggg 180
ccccacgact tggaatgccg gggtagggcc ctcaagccag aaacgcctta ggccctaggg 240
gaaacggact cgcgccaaaa atgaggccac tggaaacca agagggggact ctactgggaa 300
attggcataa acgggacccg ccaggatcag acccccctaa caggcccatg ctggccggga 360
aacgggcaag gctacaccta ccgcacaagg 390

<210> 6098

<211> 445

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077c12a1

<400> 6098

aaacaattca tgactgaatc acaaagtttc caggaccacg agcaagtggg ggtgatctca 60
cagaaaaagc taaagaggag aagagtgtgt gtgatgggtca caggagcagt gctgttactg 120
ctcattgtgc tagtcatagt ggcaattatc ttggccttta ccttgttcaa gaccaaagaa 180

ccaagaactc agcttgtgtc tgccacttta gaaggtatag cacctcgtct tacacttact 240
gccattgacc tacaaatcaa tgtcacactt gacctcaagg ttcgggttga aaacagaaat 300
cgtgctagtt tgaagcatga agggggaaaag agtgtgttgc tgtataaagg aatagaggtt 360
ggagatgctt atataaaccc tgggtcttatt ccttcaaggg gttctactat tcttccatgc 420
agactcacc ttcaggtgga aaagc 445

<210> 6099
<211> 369
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077c12d1
<400> 6099

agggcctaaa tattcttata caccaacaaa ataaataata ttatttataaa aaacctacaa 60
ctgaatcacc cctatttcaa agagctaacaa aaatcccaaa ccaagcaaaa aaataaatct 120
cccaatttca cgcacaaaat aaacgattac ccagacctaa aaaagaggcc cctcccttgg 180
aattccaggt taagccactc aatccaaaaa ccccttttagc gcttgggcaa actgacctgc 240
caaaaaaatt gggccactga aaccccaaga agggacccta cccggaaatt tgcataaacg 300
ctaccacta aaaccttacc cccctaaaag gccacacctg accgggtaac gctgaaccct 360
acacttacc 369

<210> 6100
<211> 356
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077d01a1
<400> 6100

accagctctt gagaattgag gaggtttttt ggtgctgaag cagtgtacgc cggagctggg 60
ttgcgtaccc ccgttgaacc ctactaaagc tttcaagtgg aaaaaacctg gagatccaca 120
cgagtttgag cattgagatt tgggtgcgcg gctttaggag tgatatataa gttgatagtt 180
ggaacattag tgttggtatg ataaagacac tcgccataa ttagtgttct gattcacaga 240
gctaggacag atatcgggtca agactatgaa aggtgcataa tgagatggac acttaatgct 300

tgacgccttc ttacagtgt aactacacac aaacatgggc gggctgcggc tagtga 356

<210> 6101

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d01d1

<400> 6101

aggaataaaa tagtcataaa ctatagaagt taatataata catatcacct ggacctgaat 60

tagaacacaa tttaatgtac tactatatca ataaaagaaa atatttattg cgtcctttca 120

ctttatttgc attagtacaa tatttctggt ctatcatgaa tcatggattt tatggataca 180

gttacctta caaaatttac ttagccacgg gctgaatagt aggtttgcat aatggtaaga 240

gcaagcagag cagcagctac cacaatccct atcaatttcc acacatttgg gatatgatct 300

ctaatacaaga ttttatagct gtgtttgcga gagtatctga tgcattctac acaaagggtg 360

caacaatgca acatcagtat agggaaacttc ctacaggggtt cactgctgag taagcattca 420

aggccttaca aagtttgctg gaactattgg ccatttggtc cactcccttt gtgattgtgc 480

caaacaaagt gagcaaactc ctggtgctga tctta 515

<210> 6102

<211> 404

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d02a1

<400> 6102

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atcttctttg gtctcattac catctttctt gttgctattg gctaaatgct tggaaactgg 120

cgagccagtg gccattaaga gagttttact ggacaaaaga tataagaatc gtgcgctaca 180

gttaatgcac ttgatggatc atccaaatgt gatctctctg aagcatcggt tcttttccac 240

tacaagtgca gatgaacttt ttcttaattt ggtgatggaa tatgctccac agtctatgtc 300

tcgcgtctca aagttctata gtaatactaa tcagagcatg ccacttattt atgtaaaact 360

ttacatgcac cagattttta aggggctggc ttatatccac actg 404

<210> 6103
 <211> 325
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220077d02d1

 <400> 6103

 gcggcattat attcaaatta atatgggatt aatacacaat cttagtccat ataaaataag 60
 aagatcacat atttcagtat gaaaattcgt cggtagaagt gtttgaatag aataggattg 120
 cttggtacag tatgaaaaat tgtgttataa aaaatatatg ggaacaaatt ctcatacttc 180
 ttcttcagag agatgggtat taaaatactc tttgtaaatt atgtaagaga gcaccattat 240
 gtccttacct attttccatt tcaagtatat tcatacaatg tccagtccac agagtccctt 300
 gaccacaggc atgggtgcag ggacc 325

<210> 6104
 <211> 604
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220077d03a1

 <400> 6104

 attggttcat tctcaagttt tgttaaggac ttgtatggat tgggaggcag gagacttgga 60
 gtgacttcac tcccaccatt ggggtgccta cctgctgcaa ggactatatt tggtttccat 120
 gagaatgggt gtgtctcaag aatcaacact gatgctcaag gatttaacaa gaagctcaac 180
 tcagctgcaa cgagtcttca aaagcaactt cctggtctta agattgcggc tttcgacatt 240
 tacaagcctc tctatgacct tgttcaatcc ccttcaaat ctggttttgt ggaggcaaac 300
 agaggatgct gtggtaccgg gactgtagag acaacatcct tgttgtgtaa tccaaaatca 360
 ccaggaactt gttctaatac cacacagtat gtgttttggg acagtgtcca tccttcacaa 420
 gctgctaacc aagttctagc tgatgcatta attctacaag gcatatctct tgtcacataa 480
 agactcgtca ttatttatgg tgtagacat tattattgtg tacaagtaca actacacatc 540
 gtgaaagtga ttcaaaagtt tgctggtttt ctttagtttg gaaaaaaaaa actgtgctct 600
 atga 604

<210> 6105
<211> 535
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d03d1

<400> 6105

gatgataata agcaaacatt tctctattat tataaaatgg ttacaaaacg agtttatctg 60
aaatttctca agatctaaaa tacatagagc acagtttttt tttccaaac taaagaaaaa 120
cagcaaactt ttgaatcact ttcacgatgt gtagttgtac ttgtacacaa taataatttc 180
taacaacata aataatgacg agtcctttatg tgacaagaga tatgccttgt agaattaatg 240
catcagctag aacttggtta gcagcttgtg aaggatggac actgtcccaa aacacatact 300
gtgtggcatt agaacaagtt cctgggtgatt ttggattaca caacaaggat gttgtctcta 360
cagtcccggc accacagcat cctctgtttg ccttcacaaa accagatttt gaaggggatt 420
tgaacaggtc atagagaggc ttgtaaatgt cgaaaaccgc aatcttaaga ccaggaagtt 480
gcttttgaag actcgttgca gctgagttga gcttcttgtt aaatccttga gcac 535

<210> 6106
<211> 128
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d04a1

<400> 6106

cttgactcat gctggttctt gggccgcgctc taggcctgat aggttgggac aacacgaaga 60
tggctcaaca ccatccgcag ggtgattgct tggctctgga cgacttccaa ggtgctactc 120
cgcgtgcg 128

<210> 6107
<211> 232
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d04d1

<400> 6107

caggtgtatt gattgagtat ttttactgga acatcccaaa catacatata tgagctcgat 60
 ttaaacaggt acaattgaca aattacgcta tatcggggccc atattatcac catgtactat 120
 agtgcacag gacttgggga accactatag aggatagacc acaatgggta ttacttgcca 180
 cacctggctt gtcgaggatt actgatacag gcgacctcca ttgtagtagt aa 232

<210> 6108
 <211> 581
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077d05a1
 <400> 6108

aaccaagttg ggaaagcaat gatgggtatt ctttacctgt tggtttttatt gaaaggacat 60
 ctaaccgagg aagagtttgt cagggatgga taccacaact agaaatattg gcacattcat 120
 ctattggagg atctttgttt cactctggct ggggttctgt cattgaaaac cttcagtttg 180
 ggaatacact tgttttatta ccctttaata tagagcaacc tcttaatgca aggttttttg 240
 tggaaaagag attcgccatt gaagtgaaaa gaaatgaaga tggatcattc actagaaatg 300
 acattgccgc atcccttaga caagccatgg tattggagga aggaaagaag atcagaaatg 360
 atacaagaga agctgctgca tttgtaggaa acttgaagct gcaccaggat cactacgtag 420
 ctgcatttgt acagtttctt aagaatggaa tcaggacacc aatatgatgt tgaagaggat 480
 cattactgtg tcttaattca tgtttatcat cagtttggtg aataaagtcc tactctttaa 540
 gtcgtggttc aataattgca tctgtcttct atcttgaagg g 581

<210> 6109
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077d05d1
 <400> 6109

aaaagagagt gtcttattga attcaaaaac aggagttggt tttagttacc cttacaagat 60
 agaaaacaga tgcaattatt gaaccacgac ttaaagagta ggacttttatt caacaaactg 120
 atgataaacc taaaataaga cacagtaatg atcctcttaa acatcatatt ggtttcctga 180

ttccattctt aagaaactgt acaaatgcag ctacgtagt atcctggtgc agcttcaagt 240
 ttctacaat tgcagcagct tctcttgat tatttctgat cttgttgct tctccaata 300
 ccatggcttg tctaagggat ggggcattgt catttctagt gaatgatcca tcttcatttc 360
 ttttcacttc aatggcta atctttttgca ccaaaaacct tgcattaaga ggttgctcta 420
 ttttaaaggg gtataaaaca aggtgtattc ccaaactg 458

<210> 6110
 <211> 165
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220077d06a1

<400> 6110

atatcattgc ttgagattat cactaatgaa catctagtgt aggattaaga gagaatcact 60
 aaattagaag tgagatctac aagattacta atcagcgact ttccatcaat taaatttcta 120
 aatcagaata tgcacgtgt cttaaaaata acgtgtaact aatat 165

<210> 6111
 <211> 567
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220077d06d1

<400> 6111

ctatcattac acaactaata tgtaaatctt tggtatcggg agtgtaaaaa ttaactttac 60
 aaatttcaat tacaaaagca aaattgctgc caaaaacca gctcatgaaa agaataatga 120
 aattcaggca caagaatgag gatctgaacc tgatgcagtc aaattccaga atcaaaaacca 180
 acagtgcacc ttagccatat ctgcaagcaa ccaagaaaac ttaaccaggg cctccccttg 240
 gcttcttcac aagatatttt ggtccaaaat aagctcttcc agtatgtaca gtggcctttc 300
 atggattcaa actagcacgg ctaatgaagt ctgtgctata atcttgatta ccaaatgcc 360
 tcttcgaaa taatcttatt tcttcagatt gactgcgcgt caaacacctc gctttcacca 420
 agtcgcattc cattaggtag atcagaacct gctaagctat caaaagctct aacaacctgt 480
 tccatgctag gtctctttgc agctgaatgc cgnacacaag cagcagcaac ttcaatcatg 540

caatacaatt cactctcaac ataattc

567

<210> 6112
<211> 186
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d07a1

<400> 6112

gtgactgatc atcagaggca atggcgagca ggtactgggc agtgtctctt cccgtccaca 60
actcggcatc atctcagctc tggaaccaat tgcaggaacg aatctccaag cattccttcg 120
acacacctct ctacagattc aacattccca acctccgctg tggaacccta gactttttcc 180
tctccc 186

<210> 6113
<211> 479
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d07d1

<400> 6113

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tgggttaaaa ttgaatttat ttttaaaaaa aaaaaataa aaaaaaaaaa aaaatttata 120
aacaaaaata actaaaaaag aaaaaaacac aaaaaaaaaa aacaataaaa aaaaaaata 180
aataaaaaaa aaaaaaaaaa aaagaaaaat aaaaaaaaaa aaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa agaaaaaaaa aaacaataa 300
aataaaaaaa aaataacaa aaaagaaaaa aaacacgaa aaaaaaaaaa ataaagaaaa 360
ctagaagaaa aaaaaaaaaa aaataacaaa aaaaaaaaca aaaaaaaaat aaaaaaaga 420
aaaaacaaaa taaaaaaaaa aaaaaaaca aaaaaaaaaa aaaaaaaaac acacagaag 479

<210> 6114
<211> 439
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d08a1

<400> 6114

gcggccactc aaatccagca atggcctaca cggaacaggg cgttgcagga gaccaagctg 60
acccgagctc agcgaaaaat gcagctggga ctacaacata tgctagagaa aatggaacaa 120
gagtccggca ggacaaatgg gatgaccagc ccgatactgc tcacagtatt aagcagctag 180
tgagttccgg tgccgacact ggcacagaac ttaggtagct gcggagctct gatgggagcc 240
gcatttcacg tgcagcaaag cttgccagtg ctgctgactg gagtgagaat caagacagaa 300
gaacggcaac tagacctgtg tgctggctga cccctgtatc tactatgatg aatgatgcat 360
gtgatgctaa cgaagctttg cttggtgttg actaatgtaa gggcccacaa acggctgact 420
agcgatgcaa gactaatga 439

<210> 6115

<211> 540

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d08d1

<400> 6115

caagcaatca ccgcgattct tcatttttca catcgaaaaa atccgcataa aagaattcat 60
actaaataac aaaatctata tgaaatataa atggctaaaa tacgctatgc tttccttaat 120
ttgtttgggg aatcgaacct tgccaatgct aaaaagtcag tttgatagta tttcactatt 180
tataaagtgg caaggggcaa ctctaacaat atctagaaat gttacaatgt acagctgaac 240
caaaaaatga aatgatgtta aaagtaaaag gaatcacgta atgattgctt tatgcttaaa 300
ccctttggga ttaattggat aatatacatt tcattggaat tctagaagga tggttcagca 360
atatggagca gtaataatat atactatatt gtaacctgtg aggcgtagc ttaatatgca 420
tgcatggctg gttatccact tgaggaagcg atgcctattg cgtagcacga gacctagacc 480
tcttcaatcg cctgagtggg ttcaagaagt aacgagccaa tgggtgttttg ggaactggaa 540

<210> 6116

<211> 400

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077d09a1

<400> 6116

cgaagctgca caattcactg ctgcccaatt cctcagaggt ggacctgctg gagatgctga 60
tggttggttg aaggctactg gcgttcctta tactattggc ttcaccaa at agggcatcat 120
actgcagcct aatacttggg aagatttttt ttgttatttt gtgtgcaa at taatgtgtct 180
atgtagaata aataaattag ctttgttttc agcacagttg ttgtgattct tcttgcaagc 240
taggggtggaa tcatatcata tcttgtacaa attaaacatg agaaaactgt acagctaata 300
catgcgaaat ttttatattg ctgtttgaaa aatgacctca taagtgtatt atggggaatc 360
aatatatgga tattcatgca tcttaaaaaa aaagcaaaaa 400

<210> 6117

<211> 383

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077d09d1

<400> 6117

aagatgcatg aatatccata tattgattcc ccataatata cttatgaggt catttttcaa 60
aaaacaatat aaaaatttca catgtattag ctgtacagtt ttctcatgtc taatttgtac 120
aagatatgat atgattccac cctagcttgg aagaagaatc acaacaactg tgctgaaaac 180
aaagctaatt tatttattct acatagacac attaatgtgc acacaaaata acaaaaaaaaa 240
tcttcccaag attaggctgc agtatgatgc cctatttggg gaaaccaata gtataaggaa 300
cgccagtagc cttcaaccaa ccatacagcat ctccagcagg tccacctctg aggaattggg 360
cagcagttaa ttgtgcagct tcg 383

<210> 6118

<211> 500

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220077d10a1

<400> 6118

acagaatcgg cgaacgactc gcacagctaa agcacgccac accacacacc aacaccattt 60
ctctctctct ctctctctcc gtcgcttccg ccaccgttgg ttgtcgtgaa tgccaccgta 120

tacgggcacc gctctcgctc tacagctggt gaaatgaatg gagtgcagaa cagaagggtt 180
 cacaatgatg agaaaccttt tccaggatgc ctgggaagaa tggatgaatct ctttgatttg 240
 actgggggatg taaatggaaa caagctactc acggacaggc ctcatcgtga tgcattctca 300
 ctctgaagaa gtcaatcaga ggttgcaagg atcatgagtc ctaccttggg tgatcagata 360
 gaggataagc tgattgctcc tgactcaatg agagctacaa atatgaaatt aaatggaaca 420
 cccatcaaga tgctcataga ccatgaaatg tccaaagaag ttgcttccaa gcacaactta 480
 ccaccaattg gcagtgcaaa 500

<210> 6119
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077d10d1
 <400> 6119

gatgcttgat ttttcttttt ttgttttctc tttttactat tatgagggtta ttttggtatt 60
 ttcatttttg aaaacacaca tgtattagct gtacagaaat ctgatgagta aggcccacag 120
 ggatatgata tgattccacc ctagcttgga agacgaattt cacaaactga gctgaagcaa 180
 agccaaagga aaaatcctac atggggacat taaccttgca cacccttcc cggaaaaaaa 240
 cccccgggga ttacgctaga gtttgaagcc ctatcccggc gaaaccctt gcccaaagaa 300
 cgccagtagc cttcaaccaa ccatcaccat ctttagcagg aacacctttt gggaaaagcg 360
 ctgtatcgaa cagggcaggt tcg 383

<210> 6120
 <211> 365
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077d11a1
 <400> 6120

agaatggctc ccaagggttt aacctttctg gctgtgttaa tatgcgtttc agcactgtca 60
 ctgagtcctt ctgttgctgg ggaagggtcaa aataatggcc ttgttatgaa cttctacaag 120
 gaatcatgcc ctcaggctga agacatcatc acagaacaag tcaagcttct ctacaagcgc 180

cacaagaaca ctgctttctc ctggctcagg aacatcttcc atgactgtgc tgttcagagt 240
 tgtgatgctt cactgttgct ggactccaca agaaggagct tgtctgagaa ggaaacagat 300
 agaagctttg ggttgagaaa tttcaggtac attgagacca tcaaagaagc tttggaagga 360
 gaatg 365

<210> 6121
 <211> 410
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077d11d1

<400> 6121

agaaagaaca acctagcttt atgagtatga atatcataag cattggcact gccatcataa 60
 cagcactcac acgcatacat aacataattt aacaccttga acatgccctt ttacccaact 120
 ctaagctact tgcataggac tacatatata atatccttat tgaaattaaa aaaaaaacia 180
 ccgtaacatc ggaagattaa aaaacatagc ctcttaatcc tcccatcccc atgaacctgc 240
 aggggtctcg gttcattgaa ccagcccatt taaaggaaaa gaccttaatt attttttgca 300
 taatatatta cagattttct tctcgtatca tagacaaggg gaggaaaatt caagggtcct 360
 gaacatggtg cttgttggca acattgcact ggtttctgac ctcacccttt 410

<210> 6122
 <211> 435
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077d12a1

<400> 6122

gaaggcgggtg aggacgtggg ggggggctca tttgatttgg gcatagcttt tgcaataaaa 60
 cgtttagatg cctaacatgg cttttacaca aaaaattatg acatattgat gtctcttttt 120
 ttgtgtggcc catgttgtca tacgttctag ttcattgatg cacctgaaat aatgctccag 180
 gtggactagt gtgaatgctt aaaaagaaag aggaaaacat ctatttttta gttgctgatt 240
 tgtatacttt actatctgat ccatattggt atgcttacat cacctgagtg ttgttaatag 300
 cagccataga tccgccacgg cagaaaggca tgttggattt ttgccaaccg ccataggaaa 360

tatatgaaag gaggcccacc atggcgtgtt tatatggcag aatttaacct tctgccattg 420
ctaaccctgc attac 435

<210> 6123
<211> 538
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077d12d1

<400> 6123

aatccagaac gataaaaagt cactctttca taggaattct acaatatttc gtttaattat 60
aggtgcaaat agcaaactac tcgaaaagtg gcagaatgtt tgagaacaga ataacaaagc 120
agttagttgt accaccatgc tttgccagct tcagtaaaat gacaaacatc agatctattc 180
tctatactaa tctgctcaag acaaggaaaa aaaacacttc tcaactggat ccatcatcca 240
ataccagatc caaatctaca taatttgatt tagaaaatcc tatgttagcc acatttgctt 300
ctgcacaaca gtgcatcgaa atgacctgag ccaggggagc ttacctgttc gatacatgaa 360
atgaccacaa gtcaccgtat ttcaactatc cacgttaact aaaaatattg ctcgatatcc 420
aaaatcccag gaatcatcaa aatagcatat gtttagcattt gattcttcct tttttattga 480
acttctaaa tacaatacaa gacactaaca tctaagaaat tcaggtcctt caagcctg 538

<210> 6124
<211> 252
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e01a1

<400> 6124

gttgggtgag ggatgatagc taccttttgt atgatgcttc tcaactgcctt tttgggtggg 60
gggtttcaat tgccttgcta atgggagaaa agatagagat tacacaaaat ggaggtggaa 120
acctaagaac tgtgagattc caaggtttga tgcccgtggg atacttgaac atcttcgagg 180
gaaaagggtg gtattcgttg gcgatctcgc tgagtaggac acattgggag ctcacgatat 240
gcttgctgat ga 252

<210> 6125
<211> 356
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e01d1

<400> 6125

agagaatcca aaaccagatt ttattagatt gaaaagcgta actgtacatt gatagaaaca 60
gtaaatcctt tatctgatga acagagttac cccctacaa tccccattcc agggatgact 120
ccccggggcca attcaattac attggccctc atgcatacct tttacaggct ccactaatca 180
tcatatagca tttcaccagc agaaaggaaa gtctactggc tggctgggac aactggccct 240
ttcacctgat atatcatttc accaatttga aaatcagtaa aagtaattgg aagtggagag 300
ctgaataccc aagattatgc ctgccagaaa tactggaaac caagtgcttg agccca 356

<210> 6126
<211> 429
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e02a1

<400> 6126

gcgaatatga catttttttaa taatagtaag atattttcct taacaaaaaa tgtcatattc 60
gcatacaaac tactcatgat acgacattct ttgttaagga aaatatcttt ctattattaa 120
ggccccaccc aacctacgac tttgaagtcc tcttgataaa tactccacgt ggcgtgatat 180
atagatgcag atgatttgta tttgcatcac acataatctt tactgggggc ggcccccata 240
cataaggctc ataccccgga aaataatttc ggaaccggac cccgggggca cccaccttg 300
cgtcaatctg tttcgattat aaccttacgc aaacattgca caggttttgc ccctggggaa 360
acaatttacc cgccaccatt cggcccctac ttacgatccg aaaatttaag ggggtcccccc 420
ccgggcccc 429

<210> 6127
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077e02d1

<400> 6127

gaattggaaa tttttctata gactgctga tgctagatca tttttcacia tgagaacaaa 60
tggatcagag ctgcaatatg ttaaaaagca cacaaccag ttacaataaa cacaatcag 120
gctaacaaaa atctaatacgt atgtagggtg ttgtaacttt ccaaaggcc atgttgcagc 180
agatctcaac tttgtgcagc atagtaagct aatgtatcta tgaaccattc attgcagtgt 240
cagcatgatg tgcattggcta ttttccagaa tttttccatt tgcttgagtt ctctgcctcc 300
aatctgcagg gtcaacacca tttccattca acaacttggtg gttctcttct ttgggtcctgc 360
catctttgtt gtcttgggtg cttaattgga gcagcagtg tgcagcagca tttgtccggt 420
ctggcaattc ttctaatttc ttctcaacga anaataccac caaattaacc gtataccang 480
caacaactac atcaaccgtg taa 503

<210> 6128

<211> 595

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077e03a1

<400> 6128

ctttcttctt cttcttctct tcttcttcaa gattgcgacg acgatccaag tgatagacac 60
tcgttgcgat ggaacttgta gctgaatccg agcgaactct gtaccatac gtgactggat 120
cctctgtagt cgctatcaaa taaaagatg ggattctaatt ggccgctgac atgggaggtt 180
cgtatggatc taccctgcgg tataagagtg ttgagcgtat caagcctatt ggaaagcatt 240
ctcttcttgg tgctagcggg gagataagtg actttcagga aattttgcgc taccttgacg 300
agcttatcct ttatgacaac atgtgggagg atgggaattc tctagggccg aaggaggtgc 360
ataattatct aaccctgtga atgtataata gacgtaacaa gttcaatcca ttgtggaatg 420
cacttgactt tgggtgggtg aaaaatgggc agaagtacct tggcatgggt aacatgattg 480
gcattaatct tgaggacaac catgtagcaa ccgggcttgg aaatcatctt gctaggccaa 540
ttctnctga cgagtggcat gaaaacttga ctttgaaga gggcgtcaaa ttact 595

<210> 6129
<211> 435
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e03d1

<400> 6129

gaaaagatca attcgaacca ccataggaat cttaaaaaaa taaatatgaa aacatcaagt 60
ctcatttaat atccattaac accttgaaga gtctgttgg aaccatttc atatccattt 120
aaaattctgt ttcatttcac attgagtcag ctaccatgaa ccttcagcgc cactgttgg 180
attcttgaag gcagcgaact ccagtagct tttcaacgag aatggtggga aaacagtggc 240
accttcatct gtaatttttag atatctgaat ttgttgaca gcagacctat cacggtataa 300
aagcacacgc atgcattttt ccagtaattt gacgccctct tcaaagggtca agttttcatg 360
ccactcgtca cggagaattg gcctagcaag atgatttcca agccccgttg ctacatgggt 420
gtctcaaaa ttaat 435

<210> 6130
<211> 495
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e04a1

<400> 6130

gcggcttcgc ccattctcat ttctctctct ccagaaaaaa atatacattt atattatatt 60
ttttatcaat aaaaaatcaa acgaataaaa ttttcatttt cttttgtttt tctcgtcttt 120
gtttctcggg aaaattgatt tcaccgtagt aggagccaag aaaaattccg aaccgtgaa 180
ctctttttcc tactacaaat gcaattttct tctctgtgtc tcccacactc tctctgctaa 240
agtcgcaaac acaaccacga aactgtttc tgaagtgaag caatgaagtt tcagcctcag 300
atctcgtgct gaatcatcga tccgagagag agagatagag aggagttgga ttattgattc 360
atggaaccgc ggagatgaag ttctacatat cgacgagggg cataaagaga gtgacgatat 420
ctaacagtga gggaaaggga tcggcgaaga cgacggcggg ggccggccggc tccggtcgcc 480
ggatatcggc tcgga 495

<210> 6131
<211> 343
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e04d1

<400> 6131

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttg gtttttggtt 60
tttttttttt tccccactt aaaaaagaaa ttttgatgaa aaaattccca gttttggcag 120
gcagtttagat caagggggct taaatctttt taaaccataa aaccgggttt aaggggggta 180
tgggggggca gcttcattta ttccctattt tatggggcca gggcatagcg gaccgggtat 240
caaacggggc aaagcgtttg agtcaaaaac tgaagggaac acctttttcc cttggaaacc 300
ccatacgggt taactggtcc aacccccaaa aattttgcgg ggg 343

<210> 6132
<211> 615
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077e05a1

<400> 6132

caagaatggc acttcgttgc ttggtgatgt ccctttctgt tctcttcact cttggtcttg 60
cgagagaaag ccatgccaga gacgaagatt tttggcatgc tgtttggcca aacactccca 120
ttccaagttc attgcgagat cttctaaagc ctggccctgc aagtgttgaa atcgatgatc 180
accctatgca aattgaagaa acacagtacc cgaaaacctt cttctataaa gaagaccttc 240
atccaggcaa aacaatgaaa gtacaattca gcaagcctcc ctttcaacaa ccatgggggtg 300
ttggtacatg gttaaaggaa attaaagaca ctactaaaga aggatatagt tttgaagagc 360
tatgcatcaa gaaagaagcc attgaggag aagagaagtt ttgtgcaaaa tccttgggaa 420
cagtaattgg ttttgccatt tcaaagctgg gaaagaacat tcaagtactt tcaagttcct 480
ttgtcaataa gcaagaccaa tacactgtgg aaggagtgca gaatcttgga gaccaagcag 540
tgatgtgtca tatgctaaat ntcagaactg cagatttnta ctgccatgaa gtccgttgaa 600
caacagcttt catgg 615

<210> 6133
<211> 430
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e05d1

<400> 6133

accatatata tatagagaga gagaatacga agcacactga tcacaggatg atgctctctt 60
taagtaggga agcagatctt atcagtacac ataggtaggt tgaaattcta gctctagcaa 120
tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180
aatctcattc tcatggtgct caagatgcat ggactaatta agcaacaatg ttggtctgat 240
aggcagtgtc cacagataaa ttgggtaccc ataaaatggc cttgcttcca aggaaatggc 300
aaacaggggt agttccagga tcaactccca taagttgatg aagcatttga tgattcattc 360
cagaagtatt tgagtggcaa atagcaagtg cctgagtttt gggccatca ccagccacca 420
atggaaccat 430

<210> 6134
<211> 219
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e06a1

<400> 6134

cacatggttt cttcttcctt agcagaattt tgattttgat ttatattttc tcttttggat 60
catcttgoga aataccttag cttacctaag cctgaaactt ctgcttcctg agttgtatat 120
ataacctgtg cttctgatag tgcgtaataa cttcaaaggt ctaggcctag catggaaaac 180
aaccttaacc gggaaacaga agggcatggc ttgcctaaa 219

<210> 6135
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e06d1

<400> 6135

gtaaatacat ggactaaagt gaagatttca taaaattagg aactaaaata atcagcattt 60
acaatgtcag ggactagaat ggggtttact caagaaaaat ctaaaacttt tcaatcatgc 120
ccctcccatg tctgaccact gaaggttttc agtaaagatg ttggttgctt cattattttc 180
ttcctcattt gagacgtcta tgtattaaca tacatgatgt attccttgaa ctattggagt 240
gtgtgattct cgaataagct cctaaactaa atcattttta tccgagttca caaactttca 300
agttatttat tttcagtctt ttccggcgtga tcatggctcc caagtcttaa atgggagcca 360
tttctgcgtt ggggttttgc ttctctcact tgtggcaatg gcaagggtca 409

<210> 6136
<211> 281
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e07a1

<400> 6136

gtcaaataaa ataaaaaat caaatatggc attcagcggg acccaacaga aatgcaaggc 60
ttgcgacaaa actgttcact ttgtcgaagg tttatctgcc gatggagctg cttatcacia 120
gaactgcttc agatgcagcc attgcaatgg ccttcttgcg ataagcaatt actcatccac 180
cgaaggagtt ttgtactgca aggtgcactt tgagcagctt ttcaaggaaa ctggaaccta 240
ccccaagaaa tcccagtcgt ctggaaagcc tccactcgag c 281

<210> 6137
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e07d1

<400> 6137

caggttatta tttgtacata ttttccatgg gttcaacca tgttcttgaa actatgtaaa 60
cactatattc gttggaaatt aaaggtgcat gagctcaagc caaattcgcc caatatgtaa 120
cgagctcctg ggggaactaa ttcaaaaacg aaatgaacag gattaaacca aacccaaaac 180
cagtttacc atcatgtttt caccgtgcta cctgcttttg aagcatgtga aaacaaaatc 240
cccgttaaaa agagaaaggc cctttaaaac ctacaaatta tctccccccc gaggggggaaa 300

aatgaggggg gtggcccttg gggcctaccc ggaaattcca aagggtttac cccccagaaa 360
accttgata caagcattta ccccttctgt ggccccaaa ctaaaatcgg gcacctcacc 420
cactcagttt gggggaccaa tta 443

<210> 6138
<211> 567
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e08a1

<400> 6138

gcttcgcgcc tactatttgt tgtcttaaca gtttgtgtta gtcattgaggt ccaattcaat 60
ggaagcaaga aaccaagagg tgaataaat tatttagtgg aggaattat tgaggattta 120
caagcagtat ctgaaagcca gaaagaaaca aaaaatagga aatgaagaa gcaaggctct 180
gtagcggcat ttgattccta tgttctggct gccgtttgtg ctcttgctg tgagcttcag 240
ctgttccta tgatctcag aggagacaat cactcagtc ccaacaatgt aaaaatata 300
gccaaagcctg tcaaataga tggatcttcc catgcattgc agaattggcat agattcagca 360
atacgccata ctacagaat tttagcaatt ttagaggcgc tgttttcatt gaagccatct 420
tctgttggtta cctcatggag ttacagctca catgaaatag ttgcagctgc tatggttgct 480
gcacatattt ctgaactatt tagacggctca aaagcttgat gcgtgctctg cctgtttgat 540
gcgtacaaat ggatgatgaa attactc 567

<210> 6139
<211> 475
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077e08d1

<400> 6139

agcagaatga gaagggtttac ttatttgcaa accatttaag ttcctaaaca tagattacat 60
caagggttta tacaatctt gagataatat ctgtcatgaa aagcttaatt taagttccta 120
aacataaatt actaagatga ttacatatgg tctcatttca tttcagatag aaatagcaaa 180
gcctaagtca tccgcagctg tgtaagata ttcaatagac aatccatttg aaagccggct 240

gtgagcttcc catgtcaagc agttttctac gtcagctcgc cagtcaatga catcaaaatt 300
 taagtactga tcatggatgc cattcttttg cagtggctta ggactcgatc caattgaact 360
 agtatgcaaa atgtcacgaa taaccgaact gctcagagca cggacatgtg cacttggatg 420
 aaaaaggcat ctgattgtag ctggtaggcg acactttaac aggtttgaaa gccca 475

<210> 6140
 <211> 138
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e09a1

<400> 6140

tggtcactgg ccattaaatc tatttatacg cttagaagac cttataacct ttataataaa 60
 tttttcttca ttatgatgtt tcttaattgc atttgaagtt tatgctttgg ttcagggaaa 120
 agtaaaattt gatccctg 138

<210> 6141
 <211> 138
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e09d1

<400> 6141

cagggatcaa atttgacttt tccctgaacc aaagcttaaa cttaaaatgc aattaaaaaa 60
 catcataatg aaaaaaaatt tattataaag gttataaggg cttctaagcg tataaataga 120
 tttaatggcc agtgacca 138

<210> 6142
 <211> 444
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e10a1

<400> 6142

ggcgaggaga aagatggagg ggaaggagca ggatgtgtcg ttgggagcga acaagttccc 60
 cgagagacag ccgattggga ctgcggcgca tagccaagac gacggcaagg actaccagga 120

gccggcgccg gcgccgctgg ttgacccgac ggagtttacg tcatggtcgc tttacagagc 180
 agggatagca cagtttgtgg ccacttttct gacattgtac atcacgtct taaccgttat 240
 gggagttgcc ggggctaagt ataagtgttg taccgttggg attcaaggaa tcgcttgggc 300
 cttcggtggc atgatcttcg acctcgatga ctgtaccgct ggcattctcag gggggcacat 360
 aaacccggtg gagacatttg ggctgttatt ggcaagaaa ttgtcgctgc cccatgccga 420
 tttctacatc gtgatgcaat gctt 444

<210> 6143
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e10d1

<400> 6143

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 ttggtttttt ttggtttttt tttttttttt tttttttttt ttttttaaaa aaaaccgggg 120
 ggaaattata aattaaaaaa aaaaaatccc aaaaaaagc gctaaaaaaa aaaaaaaagg 180
 ggccccttaa aaaaaaaaaa aaagggaata aaagggccca aaaacaaaaa aaaacccccc 240
 aaaaaaaaaa aaaaataaac aatttataaa aaaaaaaaaa aaaccttaaa attaaaaaaa 300
 aaaaaaaaaa aaaaaccaa attttataaa aaaaaaaaaa aaaaccccaa aaaaaggggg 360
 gtaatattag gggggggggg gcccccaaaa gttaaaaaac aaaaccccat taaaaaaaaa 420
 acgggcacca aaaggaaagg gccccaaaaa aaaccggggg gaaaaagccc aaaaaaaccc 480
 ccccataaaa gggccccccc aaaaaaaccc aggtgtaacc caccaaaagg ctcttgt 537

<210> 6144
 <211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e11a1

<400> 6144

ctttacagct atcattatca ttttgatgac ccatttcacc actttcttcg tcctccgatt 60
 tctccagaac agcaaggagg aatccattcc tcatcgctgc aattctcatc tttcactctc 120

tagattctca tctatctatc ttccaccctc ttctcttcta tacccttcag acgcagataa 180
atattgacac catagctcct gcttattgtc gcccttcacg ttgcctcctt gatcaatatg 240
atgctgtaaa actctgaaac tcgcagctcc agctcagcca cgtgttggtc taaagatccg 300
tgccttgacc cttggcagtt tcagctttca aaagggctgg agtccctctt acgcataagc 360
cactgaataa ctcaaattca cctgacttcc cgctcttccc ctctgtctct ctctgtctaa 420
agtgcaaaga tttt 434

<210> 6145
<211> 429
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077e11d1

<400> 6145
atgataatca ctatcatagc aaccccattht attctgaagt aaatgacaga ttataagggg 60
gttgctaaac aaatctaaat acagaaaaga atgtaaaaca tataaacactc caagttgaag 120
acaaacccta atcacattca cacaagtaaa aacacgtggg atgggtactta gtcgaagaat 180
tccaattga acttgggagg acctgaatta ttggtcactg aagaggggtgg ggggtggagat 240
gtggcttgca cagggattaa tgggtgggaca gaatcaaaca acttccaatt tgtggtaact 300
acaactcctg aggtggaatt ccttgagggt tgaacttggt gctcttgata tatggctaaa 360
gaaatctcac ttgagttcct tgggtgatct tgggtgctgct cctgaattgg tgctaaggct 420
aatctatga 429

<210> 6146
<211> 569
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220077e12a1

<400> 6146
gggaagatga gaagtgtgag cctgagacca gagcttcaca ttccaatttg ttcttcaaac 60
cctccatcat gtgtcaaacc catcaaatta gtggtagcat catcgatatg gaaaaatttg 120
aaaaatccac cttccaaatt tgcaatcact cttagagagc acagaacaac tttggagcat 180

gcggcgaggt tgccattact gaaacatgat tccggtattg tggtaatggg agcgggtgtgt 240
 gtggtgggga tattggcggt ggttctgagc gaggaaaagg ccttggcttt gggcccagaa 300
 ggcccacttg tggaagagtt ttgggacaac gtgaggagat atggactcta cgctctcacc 360
 gtcagcacag gtgcccttta caccatcttc cgccctatag cagaactttt caagaatccc 420
 atttccgcaa ttctcatcct tgctcttttc ggggttcaat cttcattggg tctcaagtcc 480
 tctttgacat ggttggtggt tctgaatttc ttacaacttt ggaactagac tacctccatc 540
 atatatatgc aaaataacct cttatttat 569

<210> 6147
 <211> 351
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077e12d1

<400> 6147

aaacccaac caaaaggggt tgccaaaatg aaaaaatcaa cccaaatcca agggcctaaa 60
 aaggaatttt ccccccttaa attaccaaaa tttgaaagaa aatccccaca atcctacccc 120
 cccaaattcg aaataaatcc caaccctaaa aaaaaaattc ccgaggggga aactaagctt 180
 tgagcgggaa acgggaaaaa aatgggaaaa cgggggtgac catgttcatt ggggggggga 240
 aaagtcccaa aagggttttg tttttggccc ggggggggca aaaaagttgg cccgggaggg 300
 gcaaaaagggt tttggcttga gggcttgggg agtgaaaacc ggaaaacggg g 351

<210> 6148
 <211> 346
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f01a1

<400> 6148

cgcagagggt gctgcttcaa cgactgatat tatagatggc accattgact gctctaagta 60
 gcttagcctg tagaaactct catgctcatc atggaccaac aactgctaca tatgagtcta 120
 acgcactacc tacgggactt atgcctctga agcagacttg tgctcaccgt ggacttataa 180
 tttgccaccc gccggatgat ctactaaaca gacccccagt ttggaccaat gcgttgcgcg 240

ctataaagaa tggacctctg ggctataatg cctgacctaa aagactaatc acgtggactc 300
 tgactttcat gattataagc acggacgtgg ctccatgggtg caaaac 346

<210> 6149
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077f01d1

<400> 6149

gagtacaagg tcaaggacct ttcccaggcc gacttcggcc gcctcgagat cgagctggcc 60
 gaggttgaga tgccgggcct catggcctgc cggaccgagt tcggcccatc tcagcccttc 120
 aagggggccc gcatcaccgg ctcccttcac atgaccatcc agaccgctgt cctcatcgag 180
 accctcaccg ctctcggcgc cgagggtcgc tgggtgctct gcaacatctt ctccactcag 240
 gaccacgcgc ccgcccgcct cgcccgtgac agcgccgcgc tcttcgcctg gaagggtgag 300
 accctccagg agtactgggt ggtgcaccga gcgcgcctc gactggggcc ccggcggcgg 360
 ccccgacctc atcgtcgacg acggaggcga cgccaccctt ctcatccacg anggcgtcaa 420
 ggccgaggag ctctatgaga agaccggngg actncccgac cctaacttca ctgacaacgc 480
 cgagt 485

<210> 6150
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f02a1

<400> 6150

tgaatcattc atcgctttcc accatttact cagagacgct ccttccttga ccacagggga 60
 agtttgtttc ttttgatccc ccccgatca cccagccggc ccaaacccta cgcatcccat 120
 ccatgactct tgaacaggcg agtccattgc tctgtgggcg acggatctca acctctgccg 180
 agagcgctag agactgatga agcaggccga cgactatgcc cagttcgag acatactcgt 240
 gcctctgttg cgatccctac taaactaccg acagaacaac ttgctggaag cctataccgc 300
 tttcgaaaaa accgccaatg cgtttatcca ggagtttcgt aattgggaat ccgcttgggc 360

tctggaagct ttgtacgtca ttgcttacga tattaggggtt cttgccgaga aggctgataa 420
 agaattggct tccaatggga aatccctga gaagttggaa ggcgctggct ccgtccttat 480
 gaaattcttt ggcacccttg cgggaaaagg ctctaagcgt gttggagcat ta 532

<210> 6151
 <211> 495
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f02d1
 <400> 6151

gcaaaaacac aagatacatc acaattttgc atgtccaaca tagtcataga tccatccgca 60
 gccaaaaatt cagggttattg caatgaggtc agtaacttta acagtttatt tccactggcg 120
 gcatctttgc agcatacaac acaagtggaa cctaaactac aatccaattt gcaagagtta 180
 gcatcatcca aacaagataa tgtagcttgc tttaaaaccg gagcagcgct gtgatatttt 240
 gatggccata tgtttgggag gattctcaaa cattcagtac aataactaac ggctgaaaaa 300
 actgtctcaa agtcacctg tcattaccat gctttcttgc ccctctgatt tcagtgtcat 360
 aaatgacgtt gtccctaaga atgacagggt ttccatttaa tttaggaaag ggtcttgctt 420
 gctcaataca actaccttgt tttggggcaa agtaaccttt ataagattct tattatcagt 480
 atggccacta tacac 495

<210> 6152
 <211> 531
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077f03a1
 <400> 6152

ctttccaca cccaacttca ccaacacaaa tggaatatgg aaaattggga ccctctgacc 60
 cgggtggctc ctacgcccgc tccactgttc ctctaccaa tccaacctct tcttcttcgt 120
 ccgccagcag caaaaagaaa ctcatcatgc tctctctcct cgccgccgctc ttaatcgttg 180
 ccgccgccat ctccgccgcc ctagttaccg ttgtccgctc tcgcgccacc agcaacccaaa 240

acgggccccca cctcgccac aatccacac aggcaatttc cagaacctgc agcaagacac 300
gtttccctac tttatgcac aattccctcc ttgacttccc tggctccacc actgcctcgg 360
agcaagacct catccacac tccttcaaca tgaccctacg ccacgtaagc cgggcgttct 420
acgcctncag cggcctctcg tttgccgcca caaaccacaa ggtagcgcg gcttacaacg 480
attgcctcga gctattggag gagtcgatgg aggcgctatc acggtccctc g 531

<210> 6153
<211> 502
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077f03d1

<400> 6153

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tttttttttt tttttttttt tttttttttt tttttttttt ttttttgggg gccaaaaaaa 120
aaagggggaa aaaaatgtcc aaaaaattag gggggaaaaa aaaaaaattg ggggttgggg 180
ggggaaaaaa aaaaaaaaaa gggggctaaa aaaaaaagcg gggaaaaaa attattttta 240
accccccccc ctggaaaaaa aaaaagggcc caaaaaaaaaa ttttggggga aaaaaaaaaa 300
gggggcctaa aaagggaac cccttccctt tttcccccca gggggggggt ttggggggac 360
ttttggaagg ggaaaaccct ttaaaaaacc tgggggggaa aaaatgggaa aaaaccggg 420
gtaaaaggcc cccccggggg ggggaaaacc gggggccccc aaaaaaagg ggggccccg 480
gaaaaaacc ccccccggg gg 502

<210> 6154
<211> 576
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220077f04a1

<400> 6154

ctttctttat cgccagaaaa ttttcaaacc ctaaaatccg aatttcgctg atgatctttc 60
ctaactgtca tcatacaaaa caatttttct tcatatctgt ctccgggaga gtcgctttga 120
cgggaaacaa gggttttcgc tgcaattcta atcgggtcaaa ttggaatcgt cggtatcaatt 180

tgtcatgaag ttcttgaggt gttctgcttt agatcggctt aatgatttct tgggtaattt 240
 gaatctggga gaacgtacta tcaaaggatg ccttgaagct tatagttgca aacatgctgg 300
 atcggataaa aaactctcca tcagtttgga gacagagatt cttgattatc ttgggaaatc 360
 atccgacact gattcctcct caccagatca aaccttctta accagaacca gccgaaagac 420
 attggtttac ctggttctaa cctgtatca catgtatccc gattatgact tcagtgcagt 480
 taaggctcac cagtttttca cagaggaatc acgggacagc tntaagcaga tttttgatac 540
 ctacatgcat gaagcttcca agaatgnggc tgaact 576

<210> 6155
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f04d1
 <400> 6155

caaatatggt ttttgataat attacaccag aggtgtgtcc taacagtcga gtatgatata 60
 gaatccaaac ctacgatgtg cataggagga agatacagat gttaaactta ctatattgat 120
 acggatcgga tacatatgct atatctacga ctcaggccac actgaaacgg tctttgatat 180
 acagaactac gcatctgaaa ccatcttata ttacagaact acacatggga ggatcagaag 240
 tcttcatatg ctaactaatc gaggtagaag cgactcatat atccatgtca gcaaatatct 300
 cttcatcgta ctcatgggg tatatcatca ataagcaggt ccgtcagcaa tcaagttact 360
 aaaacaactg aatcgaaaag atacaatccg ctttaagcttt ctattgtaaa ac 412

<210> 6156
 <211> 578
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f05a1
 <400> 6156

cacatggttt cttcttcctt agcagaattt tgattttggt ttatattatt tcttttggat 60
 catcttgatga aatttcttag cttacctaag cctgaaactt ctgcttcctg agttgtatat 120
 ataacctgtg cttgtgatag tgtgtaataa cttcaaagggt ctaggcctag catggaaaac 180

aaccttaacc gtgaaacaga agggcatggc ttgcctaaaa ttccatcact agttcaacat 240
 atatcatcaa atgatgaagg aaactttgac aatgggtgact tgaaaaatct aagctcatct 300
 ttcaaagaga atgaaacaat cttagcagga agccaagggtg atgaacatgc agccattaat 360
 catcggaata agcattcggt atctatcaac ataccattct cttgtgaaga gggttcagctg 420
 cataacaccg taagagttct ctatagtggc gaagatgatt tctcttctca atcaactact 480
 acagactcca agccaccatt accatgacaa tcaatgcaa atggcagtct gcactcagag 540
 ccagcatgcg gtgtccattt taacaatcaa gacagcgt 578

<210> 6157
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f05d1
 <400> 6157

gtaaatacat ggactaaagt gaagatttca taaaattagg aactaaaata atcagcattt 60
 acaatgtcag ggactagaat ggggtttact caagaaaaat ctaaaacttt cactcatgcc 120
 cctcccatgt ctgaccactg aaggttttca gtaaagatgt tggttgcctc attattttct 180
 tcctcatttg agacgtctat gtattaacat acatgatgta ttccttgaac tattggagtg 240
 tgtgattctc gaataagctc ctaaactaaa tcatttttat ccgagttcac aaactttcaa 300
 gttatttatt ttcagtcttt tcggcgtgat catggctccc aagtcttaaa tgggagccat 360
 ttctgcgtgg attttgcttt ctctcacttg tggcaatg 398

<210> 6158
 <211> 619
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f06a1
 <400> 6158

gttgatgtta aggaaaggcg cgaatcccat gattttgttc aaaccttcat cagctatgcg 60
 attgtctcct tgtgcgaaca ccacttcaat gagttccgga tcgggttcac ttttgtggtt 120
 ccggaagggt ctccggatcc atgacaaccc cgctctcgaa gtcgcttcgc gtggagcctc 180

tcattctctac cctgtctttg tcatcgaccc gcatttcatg gaacccgacc cgaattcttc 240
 cgcacccgga tctctctcgcg cgggtctgaa cgcacatcaag ttcttgctgg agtgccctcg 300
 tgaccttgac ctcaacctca agaaccttgg ctcaagactt ttgattctca aggggtgaccc 360
 tgctgaagtt gtcattcgat gcttgaagga gttgcatgtt aaaaagctat gctttgagta 420
 cgacactgaa ccgtattatc aggtctctgga tgttaaagtt aagaactttg cacttgctgc 480
 tgggaattgag gttttctctc ctgtaagtca tacactcttc aatcccacgg atatcataga 540
 gaagaatgga gggaagccgc cgcttagtta tcaatcgttt gtcaagcttg ctggggaacc 600
 accatcttct ctctctact 619

<210> 6159
 <211> 513
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220077f06d1

<400> 6159

acatgaacta aattattaag tatatatgca aaatataatg tgccatgctg cttccaattt 60
 ggcgtctatg tctacgaaat atgttacata catacatgtg tcatacaaat gtcttgataa 120
 atgcataaaa taaaatatcc ctaacacgta taaactgcaa ctcaaagcac ggcagttgaa 180
 aaaacgagta aaattttggg tcagccaatc agctgttgct tatatctttt agctccagcc 240
 tcttgccctt cactctcatc taatttcttc ctcaaatttt tcagatcatc ttcactaacc 300
 aaaccattta attctttatt caatgcatat gcctcgccca ttttccttct gcactcttta 360
 ctgcgagaat catgagaaac cactggcatt gggtagtctt tgccaattat gcccaattgct 420
 ttgggtctgaa tgcttntagg agcccgccag ggttcataaa tgtactccct gagcatatct 480
 tttaagactg ggagaaaatg cctaatatag tcg 513

<210> 6160
 <211> 378
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f07a1

<400> 6160

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gaactcgggt ttctaacagg attagcggga atgatggatt tgggaactat agtggatcct 120
cgtgtggatt ctaagatgga agcccattgc agaattatga aattgaaggg actaatagat 180
ggcaaagatt ccgaatcttt gaaggaactg ctcgaaacgg gataagatta tattctgatc 240
aaactattta agggcatatc tcttgacatg tgagcataga acaggtgagg gagttggcag 300
aatcatcaac cgtatcatgc ccatattccg cataacttgc acattcatta ccttctactt 360
ctatgtcaga atctccta 378

<210> 6161

<211> 372

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f07d1

<400> 6161

atcttgaatt tttattgttt acttattttc ttaccattt atggttttct aatggtatat 60
ttacatctca ggattttata caaatttttg agataatata ctgtcatgaa aatgcttaat 120
ttaagttccc taaacattaa tttcttacat gattacatat ggtctcattt gatttcagat 180
agaaatagca cagcctaagt catccgcaga tgtgctaaga tattcaatag acaatccatt 240
tgaaagcccg ctgtgagctt cccatgtcaa gcatttttct acgacagctc gtcagtcaat 300
gacatcaaaa ttaagtact gatcatggat gccattcttt tgcagtggct taagactcga 360
tcccattgaa ct 372

<210> 6162

<211> 436

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f08a1

<400> 6162

ttcaaacagg acagttcctt tacgcttgta ttaggacatg tggtaggcct tcatttgact 60
cagattcaaa atgctaactc actagatggt tatgtacttg catgtactta aaaactgtag 120

tggatctcca ttgactatct gcaatcatat ttgcttgctc aagtgtcaag gcaaccacag 180
 gtagatgatt tcagtaaaac ctgtctatga caaaatcata ttatgtatgc tacagcaaca 240
 gcagcttgct tatgtttgta atgagcaagc ctgcaccaga ttcagtttgg accccagaga 300
 cctctacctg tactgctgca cagatTTTTct gcacctgtcc tgtaactgat aattacacta 360
 tgatttgctt gtattatgtg ctatatcgat aacatatctt aatcagttat ggtagacaat 420
 tgaagaagaa cttaac 436

<210> 6163
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f08d1

<400> 6163
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 aataattagt tacaggagag gtgcagaaaa tctgtgcaac agtacaggta gaggtcactg 120
 tggaccaaac tgaatctggt gcaggcttgc tcattacaaa gataagcaag ctgctgttgc 180
 tgtaacatac attatatgat tttgtcagag ccaggtttta ctgaaatcat ctacctgtgg 240
 ttgccttgac acttgagcaa ggaaatatga ttgcatatag tcaatggaga tccactacag 300
 tttttaaaaa catgcaagta cctaaacatc tagtgagtta gcattttgaa tctgagtcaa 360
 atgaaggcct accacatgta ctaatacaag cgtaaaggaa ctgtcctgtt tgaa 414

<210> 6164
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077f09a1

<400> 6164
 ggctaggaga atgatggaag cgcaggagca ctatgtgtag ttcggagcta accaacgctt 60
 ctatagacag ctaatgtgaa cgtgagtga gagagcttac gactgacagg actactcaga 120
 gagccgacgc cggtgccaat ggttgacccg actgagtcta cgatcatggcc gatctacaaa 180
 gcagggcata ctgtagattg aggtcacttt cttgagtctc tacataaccg gcttaaccac 240

actgggagtg atcatggcta agtattaagg agctttccgt tgagatgcaa ggagagtcgc 300
 ttgtgccaac agtggcatga tcattgtcct agtatactgc aacgctggca tgtcaggggg 360
 acacatgaag ccatcgatga cattatggct gtttctggcg aggaagctga acttgcccat 420
 agccattcgc tgcactagat gcagtgcctg ggtg 454

<210> 6165
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f09d1

<400> 6165

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 cctcattttt tccctctcct gtctcctgga ctgtaaaatc ctagagattc gctcttcccg 120
 ttctcttctc aatctggtaa actctgcttg gcggtgacta accacccttg cttgatatat 180
 ctctttattg cccatcatgc gaacaagcct ctcttctctc ttgagatctc cctcgtgcct 240
 ctgtttgtct agttcaacct cttgtctgtg ctacagatca tgaagaagtc tctcttccac 300
 tagacgctgt tgatatgcag cttcaatcag gggagcagcc tcttctcttt ttgctctttc 360
 caaatgatcc atgggtttttg ctaacttctg cagtttcttt tccatttccct gtctttcccg 420
 gagttgttca gtcaaagtca actccatcaa tgtctgcttg gtgattttgt ccccctctat 480
 g 481

<210> 6166
 <211> 163
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077f10a1

<400> 6166

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 ggccaccgac gcgatggcgg tggccgcgtc cgacgccgac gacatcctga tccgtcaggt 120
 ggtgccagat gttggcgaag ccgaagagga ggacaacctg ctg 163

<210> 6167

<211> 446
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220077f10d1

 <400> 6167

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 catactacat aaacaacatg ggcttaacag tttcctgata ctatacggag ataattttac 120
 cagtacaaaa tgataaagtt cacaacataa atatttatac aaactcccct tagtccagta 180
 tcacattaca accacaatca ggcataatct tggattttaa ggctggatgg atatatagca 240
 gctacagttg agaccatgga atttacttca cacacatttc gacctttgca aaacttggaa 300
 tatccattct tttcccagct tttgccccat gaattcttaa tgatccagta agggttggtc 360
 ttaaaacgaa tgggagcata tgcaccttta ccataaccaa ctgaagaac cccatgatcc 420
 aaatgctttc cacaaatgta tgggca 446

<210> 6168
 <211> 303
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220077f11a1

 <400> 6168

 gcaatgctta tattttgggt ggccaagaca aatcacagaa ctggcatgtc tactctgctt 60
 ctgcagattc tgtaactcca tgcgacaatg tttacactct agagatgtgc atgactggcc 120
 tggatagaga gaaagcacag gttttctaca aagaacaatc tgcttcagct gccattatga 180
 ctgttaattc tggcattaga aaaattcttc cagattctga gatttgtgac tctgactttg 240
 agccatgtgg ttattcaatg aactctgttg aaggagctgc tgtttctacc aattatggta 300
 ccc 303

<210> 6169
 <211> 372
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220077f11d1

<400> 6169

aacggggaca aattttattta taaaaaacca ttcgacgcta aaaaggaaaa accaaaacaa 60
gaaaaggccc aaacacccta aaaaggggta ccccaaaaaa gggaaaaaac ccccaaaaaa 120
aaaaaccacc gtctggaaaa cgggccctaa ttaccaagg acacaacacg gaccctaaaa 180
aaaaccccc gttcaaaaca acctcattcc aacacccaaa aatcgaactc aggaaaaccc 240
actaccaac tatggaaaaa tctcggaaca ccaaacacc acccatcaaa agccctccag 300
ggcccctgtc ttgcaaccg gaaccctcaa catacaaaaa cccgctcgga taaaacaaac 360
tggttgacc at 372

<210> 6170

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f12a1

<400> 6170

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gtgcagattc tgtaactcca tgcgacaatg tttacactct agagatgtgc atgactggcc 120
tggtatagaga gaaagcacag gtgttctaca aagaacaatc tgcttcaact gccattatga 180
ctgttaattc tggcattaga aaaattcttc cagattctga gattagtgac tttgactttg 240
agccatgtgg ttattcaatg aactctgttg aagggtgctgc tgcttctacc attcatgtta 300
ccccctaaga tggttccagt tatgcaagct ttgagactgt cgggtatgac ttcaaagcgg 360
tgaatctgaa cgaaatgggt cagaaggtat tggcatgttc tctaccaact gagttctctg 420
ctgcagatca tgtggatggt gcaagcaagt ttggttg 457

<210> 6171

<211> 311

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077f12d1

<400> 6171

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ggtttttttt 60

tggttttttt tttttttttt taaccacat attattaaaa ataaaaaaat aaaaaaaaaa 120
 aaacaaacaa taaaaaaaaa aatcgtagat aaaaaaaaaa aaaaaacaaa aagataaaaa 180
 aaaacccaac aaaataaacac cacaaaaaaa aaaacaaaaa caacacccac acaaataaac 240
 aacaaggtaa aaaaaaacat aaaacaaacc ccaaaaaaaa aaaattaaaa caaagaaaaa 300
 aaacacattt t 311

<210> 6172
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g01a1
 <400> 6172

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 tgggtcatth ggccctgtct cagatggctg taactgttcc tgttggcagc gatttgtctc 120
 tcagaagatc tgcggttaag gcacctaact gtaacttttg ggataaatca tgggcaccag 180
 tatttacttt gtacttgaag gcaaacaact caagtttaag aagtcgtcat gtggtattca 240
 tgtcagtgc acaagcaagt gtacccaaag ttaatgtatc acctttagag ttggaagatg 300
 ctaaagaacc tccattgaac ttacacaagc ctaaagaacc ctatacagca acgattgttt 360
 ctgttgatag gctagcggga ccaaaggctc ctggggaaac ttgtcatatt gtgattgatc 420
 atggtggaaa tgttccctac tgagaaggac agagttatgg tgttattcca ccgggtgaaa 480
 atccaaagaa accctgggct cctcataatg ttcgactata ttcaattgct tctacaaggt 540
 atggagac 548

<210> 6173
 <211> 289
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g01d1
 <400> 6173

ccaaaaaaga aaacaatgtt tggggccaaa aaaagcaatt aaaccggtt tttggggaaa 60
 agggggcaca aaaaaagacc cgatttgaaa aaaagggacc aaaaaaaccc cgaaaagggg 120

tctaaaaagg gacgggcccc aaaaaaaccc cccctttaaagg aggggggaga aggggggggac 180
 cccccgcaag aaggggggggc ccaccctaaa aacacccaag gaaacaaccc ccacaaaagg 240
 gggaaaaaac cccccacatg gcccgagaaa aaccagggg cccccaaaa 289

<210> 6174
 <211> 570
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g02a1

<400> 6174

agcaagggt tcaagtgtca ctactaatcc tctaaatgga tcttcttcat atgctaaatt 60
 gggtagcaag aggttccgaa atagctgata tagagtatca aattctctga ctga 120
 acttgctact tcccaggtta atgcaaaaga agaaaaattg ggaaaacctg agggtaatga 180
 tttgccagat accaaaagta agaagagaaa gaccaataga atggaaaatg cagttaggcg 240
 taagagaaaa tcaactctctg gcctatcaga tgtgaatgta aacacttcta atgggtgactc 300
 tcaaaggcct gggagaaaaac tgaaacaaaa gaggaagggtg gaagaagtaa ctttagtaca 360
 tcaactgcaa aatgttgaga taaattttat tggggtaagc agcaaataca gcttctctcc 420
 tcaagctgca caaaatttgt gttgccttgc gtctgaagga aagtctgagc ag 480
 ggaaaagata gaggcacaag aacatcaaac tgctcaaatt aattcagtgt atacagatgc 540
 aaaaaagctt aactgcagtt cactggtaatt 570

<210> 6175
 <211> 439
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077g02d1

<400> 6175

agtgcaaaat aaaactataa attgtgataa taactttata aacagtcaca catcctccaa 60
 cccacacaaa ctcatTTTTca tatacagtct atacagccct aggttaccaa tatatactat 120
 aacaacttat taaatctagg tacaaaatgg gcatccactg agagtcaactg tccatggtag 180
 taaatagtaa gccaacatt acatatatat taatgcgtat caaaatgtgg gagtgactcc 240

cttatttatt agtttagtat agttatgtgg acacactatt gggcaccctt ctgcatgtaa 300
 cgccagggttc agagctagga gcaagcaact catatggcaa cacccttgca ccacaacggt 360
 tccttagagt ccgatcaagg ttcttcttat caatgacctt ctctatctgt cgaaccttgg 420
 cggaataatc gtagaacgc 439

<210> 6176
 <211> 540
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g03a1
 <400> 6176

gccaaggaga aaagaaaaaa aaaaagaact ggactccttc aattagtgc aattgttcttt 60
 tcttcaaatg gtagcaagaa gacattgtta atttgagaga tggcgagtta cgaggctatt 120
 aagaactttg atgatgatga tgatgatgat gatgatgtgg agatggcact ccccatagc 180
 cagatctctg aatcaagatc tgccactgtt tcttccccca ttggccaaac taccocgctt 240
 cacattcaca acattattga ggaacaacgc attatctcca ggcaccaacc tcaacccaaa 300
 tctccgcgtc tggtttctct tgatgttttt cgtgggtctca ccgtcgcgct gatgatactt 360
 gttgatgatg ctggcgggact cattcctgcg ctcaaccatt ccccatggaa tggtttaaca 420
 ctagctgatt atgtcatgcc atctttccta tttaatgatg gtgtttcgct tgcactctca 480
 tacaagaaac tgacttgtgg agttgatgca tctagaaaag ccagtttacg ggctctaaaa 540

<210> 6177
 <211> 355
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g03d1
 <400> 6177

ggcatgatta aacaaagttt tactagatcc aataataaaa aaccagttca tgcaaaaaaa 60
 attggcattt ttaggctaaa agccacaata aataaaatat aaaactaaat ttacattaa 120
 aatgcatcg ggtccaatga agcttactct cttgaaatct atcatttcaa gggtttaaaag 180
 gtaaaggcca aattatatcg caggggggct tttataaaca aacgctgggc catatataga 240

aaaggtaatg ccatcaagaa atttagggaa ctctaaactt tatccattat ccatgccggt 300
gacgtcatca agagattaga agaatttgct acaccgggtc ttggtcttga tcaaa 355

<210> 6178
<211> 509
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g04a1

<400> 6178

gatatttccc ttctgagctt tgattagtgt ggcctagttg ttgttttctc gatgagaaag 60
gcttcttcca ctatgcattg cgcacttctg cgcttttggg ttcccttgct gctgcttgct 120
agcttcagct atgctccttc tgtttcggcc acaactgaaa ttccagggaa tgaagtgaac 180
acagatggga aggtgataaa tgaagagtta gcaaaaccaa gtctaaaagg acatgatgaa 240
gaagcaaagt tcaaaggatt ttttccaaaa ccaattccta tagttaaacc aattccaaag 300
ccaattccta ttattaaacc tattccaatt ccagtttata agcctattcc aaaaccaatt 360
cctattgcta agcctattcc aaagtcaatt ccagttgcta agccaattcc taatgaagaa 420
gaaaaattca taggatttat tccatagcca attcctataa ttgagcctat tccaaagata 480
attcctattg ctaaacctat tccaaagat 509

<210> 6179
<211> 454
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g04d1

<400> 6179

agaaaaggaa taactggtac catctattac attaataataa tcgatctaca aacgatcaca 60
ccgagaactt cattgaacag agagcatgaa ctacttattt tccattacag tacacgagag 120
gagtacgaag tttattttga gatacgatgt agctgtactt ataaaggcat ttagaaatgg 180
aaccgataac tttatagttt gagatagagt attatactct tatggagttg gaattggctt 240
gtgaattggc aatggtggtg gaagtggttt cttgaatttg ggggtgaagtg gtagcttagg 300
aataataggc tttttgaaga aaggcttttg ttttagaaat tcctccgact caacagtcgg 360

gatgggcttt ttcacttaaa tggttttggg ataggcttaa taatgggaat tgggtttggc 420
acaagtttaa taattggaat tggtttaaca acgg 454

<210> 6180
<211> 479
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g05a1

<400> 6180

aaaataatag aatttctagg gctttagaac tctccatttt ctcttccgat catccagaat 60
cctcgagaat tctttttggt gaactcactt ctctcttggt cgccacgcac tcttgtctct 120
gcaagtgtgc tgggttgctc gtagaccacc aggatatgca tttattgagt ttgatgatcg 180
gagggatgca ctcgatgcaa ttcaggcctt ggatggaaaa aatgggtggc gtgtagagct 240
ttctcataat tccaaggggtg gtggccgagg agggcgtggg cgtggaggtg aaggcacaca 300
atgctatgaa tgtggtgaac ctggacactt tgctcggcag tgctgattgc gcattggatc 360
acgtggcctt ggaagtggaa ggaggcgaag tccaagtcct tatcggcgctc gtacaagtcc 420
aagttatggg tatgatcgca ggagttacag cctcgtggg agaagatctc caagacgac 479

<210> 6181
<211> 338
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g05d1

<400> 6181

gaacaaggaa atccccaaaa aaaaaaattt aaggcaacca agggggggcaa acaacccggg 60
gtaaaccccc tggatagggg cgcccaaat ttaacaaaaa aaaacttcaa aggggggaaaa 120
aaggggccccg gggtcccaaa gcggaaaaag ccccccaatt ccaaacaaaa gcctgcaaaa 180
ggtaaacagc cccatgggga aacggggggc ccaaacaaaa aagccccagg ggggggaaaga 240
aaaacatttg ggggggcccc aaatgggaaa aggggaaccc cttttttagg cccaaacctc 300
aaaaatcata tatcaaccag gggattttgc ccaagggg 338

<210> 6182

<211> 453
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g06a1

<400> 6182

aaaataatag aatttctagg gctttataac tctccatttt ctcttccgat catccaggat 60
cctcagagaat tctttttggt gaactcactt ctgtcttggt cgccacgcac tcttgtctct 120
gcaagccgtc tgggttgctc gtagaccacc aggatatgca tttattgagt ccgatgatcg 180
gagggatgca cttgatgcaa ttcaggcctt ggaaggaaaa aatgggtggc gtgtagagct 240
ttctcataat tccaaggggtg gcggtcgagg aaggcgtggg cggtgaggtg aaggcacaca 300
atgctatgaa tgtggagaac ctggacactc tgctcgggag tgctcgattgc gcattggatc 360
acgtggcctt ggaagtggca ggatgcgaag tccaagtcct tatcggcagc gtacaagtcc 420
cagttatggg tatgatcgca ggagctacag tcc 453

<210> 6183
<211> 342
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g06d1

<400> 6183

cattggggat tttcttgatc atttaattct tgaccaacta ctcacaaaat taaaaaaatt 60
aaagaaacca atgggagaaa atataccgga tgggacccca ctatattgga ggggctacca 120
tttagtccaa taaatgctta acgtcgatac ccacgcaccc aattccactt tgataaaatg 180
gccccctgct cctaacaata agctcgtcta gtttaatgac ccagttgaga aaaatgggcc 240
ccctaccaaa aatacagtct gtggaaacca aaacattcgg ggaggcccca aatgggataa 300
taggaacgac ttttttatgc cccagggtcc aaaacaacat tc 342

<210> 6184
<211> 496
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g07a1

<400> 6184

cgattccaaa ggtgcgtttc tgctgtgcta gggtttctgc atcttccacc tccgtcgcga 60
tgaaaccagg cttcatctga ttccgatttc ccttcgctcc ttctctcct taacattcat 120
cttcttcgat tctctacaa attatgatta ttattatgat gaactccatc ttcgcctcgc 180
ataaccttcg cgtcttcggt cccggcttga atcccttcgc accttattgc atcgccaatc 240
actccctttt cctttccctt tctctcgtc aaattacaat tccctttctt tttcctctcc 300
aacttctcct tctcgtttc tccgcacatg tcaattcgga ggacaccgtc tttgattcgg 360
cctattcttt tgggggttac tttacttcgg ttaogcgctg tcgttttgct tatctttgct 420
gccggttctg cggttcgctg attgctgaca aagaaagaaa gaaagacaga tgctggagga 480
acagcctggt gttttg 496

<210> 6185

<211> 541

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220077g07d1

<400> 6185

gaaaacatca acaatcacag catatcacat taataatcgt acataattgt ttccataaac 60
aagggcatcc aagatgctaa aatagtaaaa catccccata cactacatag tagttttatt 120
tcaattgtac atttattcat acaatacaga tacagtgcac gtctggatac gctttctgaa 180
tgtacgtatc agcatatctt catgtcaaatt ttgtaaaggc gacgcaaaag ctagttatat 240
taactttgat ctctctgaa tggcatccaa acacactatc aaacaccaac caaatccctg 300
aaaagcaaat taactttcag agctgtaaca tgtctctcca gcagacaagt ctctctgacg 360
aagtcgcttc atctctcat aggccattc cagtcggggg cagtaatgaa gccgtgggtt 420
aaatctgcta ttactgata tcaggtggca tgaaggctcc attctctatc aagaatntca 480
cagcattcct cctncttttc ttggctgcaa tgtggaacgg cgtccagcca caagcacct 540
t 541

<210> 6186

<211> 480

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g08a1

<400> 6186

aatctctcca aatttcactt caaatgcgag tagtggtggt cttctctggt ttcattgctg 60
attaagtagt tgtgaatctt ttgcccttta ccatatgaag gtgttaactc gatctctatg 120
ctggattgta tggaactgga gggataggta aaacaacgac cgctgtataa gtaattgtta 180
tagctagtcg ttgttttacc tattccaccc attccatgta tccctttcct gagggcgcg 240
ataatttctt acttttcaact gccgattccg atgaagcttt gtgttttaat cagacgaatg 300
aaagtatatt aagcttttgc tctggattta tgtgccagta gaatgatctt aagattctaa 360
ctttattatt tgtttatggg attatttggt ctattttggc caatagttca cagatctgag 420
agtttcaagg cgtccctctt gctgtctatg ccagtaaadc gattgtaaga ttattaactg 480

<210> 6187
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077g08d1

<400> 6187

gtgacgctct tttattgcag aagtctaact tgaatacatt gtttttgtga agatctttta 60
ttgcagaaga gacttgaaaa acattttaca aatttgaaaa actaaaaata atagactcgt 120
aaatgttaaa actatatttg aatgaaatca tgtgaaagct ggaaaatata tgcgacatgc 180
aagcgtagtt atcttgaaca cggacagcta cttaaccata ttgatgccat cgaattctaa 240
tcccatttca cattgatcaa tgacttcaat gctagagaag taaacaatga tgcttggtgc 300
gttttgctcc gtatgcaatt attgttctca ctgcatatat tttttcctta cacttgctca 360
ccaattcatc agatccataa tttagtttgc cccttttaca aggttaggct aaatgatact 420
tccctgcaag cttttgttac aaaacatgga cctcaatctg tggctaacat tcccatttgg 480
tccatgttat tgacaccggt tgaaaacagc acacaattca ttaattttct gacactaagt 540
ccacatgttc aattttgaa 559

0 9 5 3 1 1 3 4 7 0 2 2 0

<400> 6188

<210>	6189
<211>	567
<212>	DNA
<213>	Glycine max

<400> 6189

2732

acccaagtcc ttccacgtct tctggaatct catggcttgc aggtcaccat aagtgaatc 540
 ttttctaaat gantaaaatg gtgggac 567

<210> 6190
 <211> 160
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g10a1
 <400> 6190

ctcgcgatct agaactagaa ttaccttca tctttctctc agcttcacct tcaccttcac 60
 cttccgaatt gtatcaaacc tcaaaaaatg gatcatcaaa acaaacacgt agcagtcttt 120
 gctttcccct ttggcagcca ccttatgcct gtcttaaacc 160

<210> 6191
 <211> 379
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g10d1
 <400> 6191

ggttaattac ggggttatta ttaatggtaa ttgaacattt catttaggaa tcttagctaa 60
 cttgctttgg ctaatttata ccaagattga atcactgtca atgggatcat atgaacgtac 120
 aagaggaaac atcacaaatg gatacacaga actgaaagac tataatcaca cttataaggt 180
 cactgtgatg tgcattgcaat acacaaaaac aaatgtgata caacttgaca aaaatacttt 240
 gactgaagct gattaaaatt ggctttctgt gtgaaactcg aactgggtct taggccacgc 300
 ctgagtgtg ctttccacac aagatcgatt ctgttaacat aaatggccac cacttcgcga 360
 tgagaccaac cttcaaggc 379

<210> 6192
 <211> 122
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g11a1
 <400> 6192

gaaaactcaa gccctgatgg aagtggagat ggaaacggca ttggtggagc acaggctatt 60
 agcgcggtgg ctgaatttct gctgcttggc tacatcgacg ttcttatatg gcgcatgaag 120
 cg 122

<210> 6193
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077g11d1
 <400> 6193

gacaaaacat tcactaaaat aatttgcttt catcatatca tatataaaat acagtgtcca 60
 ccgcaattca tataagataa gctctaattg cccaatttcc ttaaacaacc aactcaccta 120
 cacaaggaa ccaagattaa cactaaacat tggcaacaaa aaaatgaagc atgcttccat 180
 caaagttaaa gtatgaaagc agataaaccg ttgaactcag gccattgaga ttttttcaca 240
 acaacaaaact gcaaagggtca cctttagaag gaaaattccc aaataaactg tggcttgagg 300
 caaccattct tgtccatgca atcaatatat acatccattc catgcttgta aaaccaaatt 360
 ggggctatct tgtacccac attttttggc cttgaaattt tatcatgtgg ccaatggaac 420
 caacaaaaag caacacatta tcaccatccc 450

<210> 6194
 <211> 471
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077h01a1
 <400> 6194

caaatgttga agctatggga cttgtttata tatactgcca ggttcaagaa acacacagac 60
 aatgaaagt ggagtgattg atagcgacga tgatgagatg gatgttgctg ggaacaagac 120
 aaagaatggg catgctgtaa gcggctctaa caacttcttt gcagatatat aggattgttc 180
 acaagtgtga tgaccctatt agtacatttg cgtgatttcc ttcctaataca atatattcag 240
 acagacgctg gagccacatg atgaactacc tgaagtctcg ctaaagcagg agatgatgga 300
 ctcgggccaa tgatgcaaca atatacagct tgtgtttttt acgaaattta tatgacactt 360

atccagttca ggtcaaacat atgcttgata ttcaattttg ctgttaccct ttcgaaaaag 420
 ttatttacta taacaattct tgatcttgat cccaaattga taccttgggtg c 471

<210> 6195
 <211> 378
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h01d1

<400> 6195

agccactaaa caaaaagtta tccaagagag gaattgtggt acattgattt taattgcttg 60
 agataaaaaa aatgtagtta acactagagt taatttatga aatgaaaata attaaagaat 120
 taagaagcac aatcattact ttttaattaa tttatattgc ttgattttgc aactcattac 180
 ttttattgcc aattaagtat tggctttttg ggcctatggt gtttgggcac gccaggaaag 240
 caaggaattc cagtaacctc aatccaatca gttccatgaa aaaacttaga tggtgagaac 300
 caacgtgcag cttttgaatt gaggttccaa atcccagccc atttcacacg cttggatttg 360
 tctgaaccgg ggccaatg 378

<210> 6196
 <211> 552
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h02a1

<400> 6196

gttactactca gagtagtgaa caacatcagc aacaacaaca acaacgttgc agtgtgttgt 60
 attgtttctt agtgcacttt tttttggcat caaagagggt aaatccatgg attctgatta 120
 tggattcccc agggaaactct cagatcttca aaagattcgg tcgttgtacc agccagagct 180
 tctctcttgt ctccaggga ccaactgtgag gggtgaattt ggtgatgcaa ccaccactgc 240
 tgacccact gatgcactca ccattagcag ggcgtttcct aacacctatg gacacccttt 300
 ggctcacttt ctcagggcaa ctgccaaagt ccctgatgct cagatcataa ctgagttccc 360
 tcctattagg gtggggattg tcttttgtgg gagacaatct cctggagggc ataatgtcat 420
 ttgggggtct cacaatgctc tcaaaattca caatcccaac agtgttttgc ttggaatctt 480

ggatgatcag aaggtctgtt tgcccaaaaa actctggaga taactgatga tattctttcg 540
acatacaaaa at 552

<210> 6197
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077h02d1

<400> 6197

caaatgcatg ggtgtctcac ttggcatcat tgatattata gccttaatta ggcataccaa 60
tcaataagag acaagtcaag gggtatgaaa tcataacaga cagactcgt atttgtgggt 120
ctcaciaaagc atagccta atgtatcatc tatgtgacat ggtctacatg atattattat 180
tacaggttga taaaaaaaga ccacataaat atctaatac aatttacata aaacacaatc 240
catacactat atagttttga aggatccaaa gctaatacag atcccttcct gatctgctat 300
ctggctacat caactgactg atgggagagg caatcttttg gcaatttcct ttgtagaaa 360
agatgcaatc ttggaatttt ttttctatt ccaagatcat ctttagcccc tccataggtc 420
tatatgagtt tgctacaact atcttcaggc agcaagaaca tcatggggaa aagttgctag 480
tagcatagtc aacaatgtcc tcaaacagtt catttatatt atct 524

<210> 6198
<211> 377
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077h03a1

<400> 6198

gatatgctcc ttctgagctc tgatcaacga gaactaacgg ccggaatata aatgaggagg 60
gacagtgcc ctatgcattg ggccgcttg ggctttggga ttccaagggt gcagctcgct 120
agcttcagct atgctccttc tggcacggcc aacactgcta taccaggga tgaaccgaac 180
acaaacggta acgcgataaa cgccgattta gccgccccaa gtcgaaaagg acacgacgaa 240
taatcactgt tgaaaggatg tttccgaaa ccaattgcta ataggaaacc gatatcacag 300
ccaattgcta gcatataacc tattgcactt ccagtgaata aggctatagc aatgccatt 360

cctgttggca aggctat

377

<210> 6199
<211> 529
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077h03d1

<400> 6199

ataaaaggat taactggtac catctattac attaatataa tctgatctac aaacgatcac 60
accgagaact tcattgaaca gagagcatga actacttatt ttccattaca gtacacgaga 120
ggagtacgaa gtttattttg agatacgatg tagctgtact tataaaggca tttagaaatg 180
gaaccgataa cttttagtgg tgagatagag tattatactc ttatggagtt ggaattggct 240
tgtgaattgg caatggtggt agaagtgggt tcttgaattt ggggtgaagt ggtagcttag 300
gaataatagg ctttttgaag aaaggctttg gttttagaaa ttctccgac tcaacagtcg 360
ggatgggctt tttcactata aatggttttg ggataggctt aataatggga attggttttg 420
gcacagggtt aataattgga attggtttaa caacgggaat tatctttgga caggcttaat 480
acaggaattg gcttaacaca ggaattagta tggttaggct tataactgg 529

<210> 6200
<211> 127
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077h04a1

<400> 6200

atgtatgggt ttccttaata aaaacgggag cttttatttg ggggattaga gtttattgct 60
ggaaaagtgt cagctggtat ccgagttaa ctaatggatg tttgtagatc acaaaactga 120
aataaaa 127

<210> 6201
<211> 143
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220077h04d1

<400> 6201

tttttttttt tttttttgat ctaaaaacat ccattaattt aactcggata ccagctacaa 60
cttttccagc actaaactct aatccgcca ataaaagctc ccgtttttat taaggaaaac 120
catacatata aaagaggaga acg 143

<210> 6202

<211> 405

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h05a1

<400> 6202

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gccagcagta tgtgtagctc gaataccacc aagatttgca tacattgcgt tagatgatcg 180
cgggatacta cttgatgcaa tagacgcctt ggtaggaaaa gatggttgcc ttgtagagca 240
ctatcataac ttctagggag gcggacgata acggcgtgac ctcaggggca aaggcgctac 300
ctgctagaaa tgtgggtaac ctagacactg cgatagggtg cgaccactga gcataggatc 360
acagggcctg ggagcttaat ggaggcgagg cccaacaact tattg 405

<210> 6203

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h05d1

<400> 6203

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gaacagaact acacctcaca cgagaagggt taccaaatta gaggcccat tatgagaccg 120
ggagaaactc aagccaaata a 141

<210> 6204

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h06a1

<400> 6204

gtatttacia agatcatcgg gcgttatgat cttaactgca ctctgccgag catctgtgtt 60
catcttcaact agcccaagat tgacgctctt aggcctagat gagaacatac tacaggcggc 120
aggaaccatc tgtgttgggc gaattcctat cttatttgct tatattgagt cattcaatcg 180
gcagacatta cttagatctc aaagcaggaa tgtctggata gcattcttgg cagcttttagc 240
actaatcatt catgtgctgc tttggtggct attgactata cagttcaagt gtgggattcc 300
tggggcaatg atgtcaacaa tctaggcatt ctggatgcct aatattggtg cacttaggat 360
taatacgtgc ggggtggtgcc atgaaacct 389

<210> 6205

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h06d1

<400> 6205

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ctacttatat aattttatta atttaagaaa tatttgagag agaatttact gataggatgg 120
tactatagta taataactat caagcaatcc cctgaatgta taacgtacaad tagccaatca 180
aacaatgatg atattgataa ataggagtct gaaactaatt atctgatgta cttgtttcat 240
gatcaagttg caccttatac cacttactaa tacgattacg ggctatagtt acctgctcat 300
cccaattagt tttgtaggtg attatagcta ggactatagt tggaactagt gtcccaaaca 360
acattccaat ccaaataccc ttgacttgca agtgaataat gttaccaagt actattccaa 420
ctggaatacc tatgaggtaa taacacccta tgttcacata cgctacagtg 470

<210> 6206

<211> 458

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h07a1

<400> 6206

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 tgaaaccagg cttcatctga ttccgatttc cttcgctcc ttctctctct taacattcat 120
 cttcttcgat tctctacaa attatgatta ttattatgat gaactccatc ttgcctcgc 180
 ataaccttcg cgtgttcggg cccggcttga atcccttcgc accttattgc atcgccaatc 240
 actccctttt cctttccctt tctctcgcgt aaattacaat tccctttctt ttctctctcc 300
 aacttctct tctccggttc tccgaacatg taaattcgga ggacaccgtc ttgattcgg 360
 actatatttt tgggggttac ttacttcgg ctacgcgtcg tcgttttgct attctttggc 420
 gccgtttttt gcgtagcgtt gatcgctgat accgaaag 458

<210> 6207
 <211> 561
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077h07d1
 <400> 6207

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 aaggcatcc aagatgctaa aatagtaaaa catcccata cactacatag tagttttatt 120
 tcaattgtac atttattcat acaatacaga tacagtgcgt gtctggatac gctttctgaa 180
 tgtacgtatc agcatatttt catgtcaaatt ttgtaaagggt gacgcaaaag ctagttatat 240
 taactttgat ctctctgaa tggcatccaa acacactatc aaacaccaac caaatccctg 300
 aaaagcaaatt taactttcag agctgtaaca tgtctctcca gcagacaagt ctctctgacg 360
 aagtcgcttc atctctcat aggccattc cagtcggggg cagtaatgaa gcggtggggt 420
 aaatctgcta tcaatgatat cagggtggcat gaaggctcca ttctctatca agaattttac 480
 agcatccctc cttcttttct tggctgcaat gtggaacggc gtccagccac aagcaccctt 540
 agttctggca tcaatgtcag c 561

<210> 6208
 <211> 604
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077h09a1

<400> 6208

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 tgctcatggt gatcacggaa aatcaaccct cactgattct cttgtggctg ctgctgggtat 180
 tattgctcaa gaagttgccg gtgatgtccg tatgactgat acccgtgcag atgaagctga 240
 gcgtgggtatt accatcaagt ctacagggtat ctactctac tatgaaatga ctgatgaagc 300
 tctcaagagt ttttaaggag agcgcaatgg gaatgagtat cttatcaatc tcattgactc 360
 ccttgggcac gttgacttct catctgaggt tactgtctga ctccgtatta ctgatggagc 420
 tctagttgtg gtcgattgtg tggaaggagt ttgtgtccaa actgaaactg tgctaagaca 480
 agcccttgga gaaaggatta ggctgtcct gactgtcaat aagatggaca ggtgcttctc 540
 ttgactccag gttgatggag aagaggggta ccaaacattc cagaggggcta tcgagaatgc 600
 taat 604

<210> 6209

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220077h09d1

<400> 6209

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 caaaatccta ttagagcaaa aatacatcga tgcaaggacc aaataacagc attacaacat 120
 tcacgggcaa aaccacaaac aaaactaaca gaaattaaat ctaaagtagc attgttcaca 180
 agagaaaata aattcgacta agttcaaagt aaaataattc atgaaacaaa tttaaagctt 240
 gtcttcaaac tcggagagag gagtcatctg ttccttcaag cccttctctc tgcgaaatgtc 300
 agtgacaagc tgtgcagctt gtgatccagc ctccaatggg tcagaagaca tcatgtccca 360
 gtgatcaaac acacattgtg ggaaggcctg gcctgatgtt gcagccctca atgtgtctga 420
 gaaaccaaag gactcgatga caggagggta tgccttgatg ttgtatagtg gggtagctgg 480
 cctctgcatt tcctcgaaca cgtgtccacg cttctgggta agaacact 528

<210> 6210

<211> 283
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h10a1

<400> 6210

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 acgcccctca cttccttggt ccttcataaa aacaacactt cctcctcttg cattcgga 120
 ccaaaccatg cagcgcacgg cgttggcgac agatgaacca cggcggcgct ccggcgacgc 180
 ggagggggag aaggtgttca aggggagcga ggtgttccgt gacacgtcag caaattactt 240
 gaagaccatt ttggacctgg cgaaccggct cggcaccatg cat 283

<210> 6211
 <211> 462
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h10d1

<400> 6211

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 agtttacaat ttacatgatt aattaccaat gtgacttcta agacaacaaa agataactcc 120
 tttctcaatc aatcaacagt atttatttac cttaccccat tcaaatacaa ttaatcatga 180
 accaatcact cactccatc ttcaaaactc ccaaataaag cctaacctaa gagaagaaaa 240
 gtgtaattac ccccatgaaa ctatgggtcg aagttacgac catatcaaac aattctcaac 300
 tcaaggtttg gatatccagc tcgagctttg tgtcgttcaa atagatcttg aagtgttca 360
 acaaattggc tatgtattct ggcaacctcc tcaagagttg gtcgtgatt tttctcgagc 420
 tcaattggtc taccaccac cacatgcac ggatgttaaa gg 462

<210> 6212
 <211> 211
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220077h11a1

<400> 6212

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 catcttgca aatttcttag cttacctaag cctgaaactt ctgcttcctg agttgtatat 120
 ataacctgtg cttctgatag tgcgtaataa cttcaaaggt ctaggcctaa catggaaaac 180
 aacccttacc ggaaacaaaa gggcctgggt t 211

<210> 6213
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077h11d1
 <400> 6213

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 cccctatttg tcaaaaaaat taatttttcc cccccaaaaa aaaaagggggg ttccccctcg 180
 aaatgttcca aattttgggg cccaaaaatt ttggaacccc ccttttgggg aaataaaaaa 240
 ggccccccaa cattataggt gggaaattta aaggttccca aaaaaaaggg gggtctcttg 300
 ttaccaaaaa taaaaatttt cttccaaaac cccctttgaa accccccctt tgaaaaaata 360
 tggctcccc caaaaattaa ag 382

<210> 6214
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220077h12d1
 <400> 6214

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 atacagcagc aaaagcatac ataagaaaac atagtagtaa gcattcatat tcatatatga 180
 tatatatgat aatcatcaac acgacggaac gacgccgtat ccagccagag ggtccgcac 240
 agtgcgtttc gcgaaccttc ctttgattct tggcctcggt tcggtatacg cttttctcga 300
 tgcgtaacga atgggtcttct cgaactttcg gatcttctct ttctgcctgt acctcaacac 360

tgtagccttc ctatccgccg ccgagaactg cgccgtcacc gtcaccggtg ccacttttgc 420
gtaactgcaa gtcgatattc 440

<210> 6215
<211> 606
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078a04a1
<400> 6215

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gggagaaaaa accaccagag caccctttta taatcttttc ttttttttct tcattggggc 120
tattttaatt tggggctctt tttctacatg ggtttacata tagttctact tgtgggacaa 180
cagagacggg tacaaagcat gggctctgaa agaaggcatg aaacgcagct acgtgaagca 240
atgtgactat gttgccatct ttgacgccga ttttcaaccg gagcctgatt tcctctggcg 300
aactgtccca ttcttgtca acaacctga acttggcttc gttcaggcac gctggaagtt 360
tgtgaatgcc aatgaatgtt tgatgaccag gatgcaagag atgtcactgg attaccatct 420
cactgtggaa caagaagtgg ggtcttgca ttacgccttc tttggcttca acggaactgc 480
tggtgtatgg agaatttccg cggtgtatga gtctggatgg tggaatcata ggaccacagt 540
ggaagatatg gacctggctg tccgagccag actcatagga tggaaatttt tgacctaccc 600
aatcttg 606

<210> 6216
<211> 601
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220078a05a1
<400> 6216

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gtttgannnt tggtgnnttn ttcttgttt gtttgtgtgt tttgttgttt tttttttttt 120
tttttttttt tttttgttgt tggttgggag tttttactcc tgggggttaa ttttaagttta 180
agaatccgta atggaaaaga cgaacaagtg agagtgtgag attctgttct gagtcattct 240

tgtgttgtaa tcgcgaaacc ttttccgatg aaaattcagc caatcgactc tcaggttctg 300
 gccgagggga ctcagcttga gctcgccaag cgggttggtga agtcgcggct gaagcggctc 360
 ctcgagcgcc agttctccgg tggtcttaga aattcggcgc cggaaaagat cgccggaaac 420
 gatgaaacgc ttaacggctc caatgatttt gagccgagct cggcgtgttt agcgaaaatg 480
 gtgcagagtt tcatcgagga gagccacgag aagcactccg cttcacacca ccgcaaccga 540
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 g 601

<210> 6217
 <211> 513
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a06a1
 <400> 6217

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 tcctgggctg ggacatcttc ttgtgggaat tttttctcta aacttctaca tttctactcc 120
 ctctggggag atctttcaca cccggggacc caactttcaa taatggcaac aatgcttcaa 180
 aatatgctat ctttaaaatt ggagattaga acatagcctg cgatagacca taaaatttct 240
 gacctttcag caccatttca tgcaatgcta aaggcgtgtt ccagggaatc actctctgag 300
 actatagatt tgtctgaaaa caatctcttc tacttcaagc atgatggcaa atccgtatca 360
 ttagctcgac atggaattta cccgatgtcc attccaatct ttaggcggaa acattagcaa 420
 ttgctaataa agtattgtag ccaaagacta aatcaggctc gaaatagaag acttgcaccc 480
 ttagtaccct ccagaaaaga cgctctggaa ctc 513

<210> 6218
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a07a1
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gtcttctgca atagctaatag aagaaaccaa tcttgtgggt accagatttg gaggaatggc 120
 ataagacgga gaggggtata caaagacagt tgcagaaaat tggaacaact ttcaaccttg 180
 aacgtgtata tctaataatct cttgaagcaa tttttacatg ttagaagtaa tgattgtcga 240
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 gctagaacct agaaatagtt tggaagaatg gatgcttccg agtgagtttc tctgtttatc 360
 tatttccctt ttcctttcct gttttatata cttgaaaaat attttcaacg tgatatacct 420
 atttcat 427

<210> 6219
 <211> 427
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a08a1
 <400> 6219

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 agcttctgca atagctaatag aagaaaccaa tcttgtgggt accagatttg gaggaatggc 120
 ataagacgga gaggggtata caaagacagt tgcagaaaat tggaacaact ttcaaccttg 180
 aacgtgtata tctaataatct cttgaagcaa tttttacatg ttagaagtaa tgattgtcga 240
 gacattatat agtttctctt agaggccttt atcaataacg gaagcattta gatgtttcct 300
 gctagaacct agaaatagtt tggaagaatg gatgcttccg agtgagtttc tctgtttatc 360
 tatttccctt ttcctttcct gttttatata cttgaaaaat attttcaacg tgatatacct 420
 atttcat 427

<210> 6220
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a09a1
 <400> 6220

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aagcagcatc ccttgtgttt caagcaagct tagaaaatca aatgaggaag cttattcacc 180
 aaagtttgtc agcattggac cttatacag aggaacaagt agccaccttc tggccatgga 240
 agagcacaaa tggcggttaca tgctggctct cttcataga actcaaaatc cagtgtcaac 300
 cttggatgaa tgtggcactg tcattctagg cttggacgat gcagttcgtg caagctatgg 360
 aggtaacatc aaatatgaag ctcatgagct agccaaaata atgttacttg atggctcctt 420
 cttgctagaa cttcttctta gatgcgacac accaaacatg gttcctcaaa ttccaaaaga 480
 agataaccat aataatggtt cttcttcaga tccaatacta ggacacatag aggtgttctt 540
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<210> 6221
 <211> 552
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a10a1
 <400> 6221

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 caagagcagc tgtaaagag gcaaggaaac agcttcttct atggagcaac caagatgaag 180
 aagattcaac atttcagttg ggggtccctg caaccatgcc tgtggtcaag gaactctgtg 240
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 cttaaataat tgaaaagagg attttaatac acatctctat gaagaagaaa cattataatt 360
 gtttcacaaa tattttttat aagacagttc ttgatactgt accgagcaat gttattctat 420
 acaaacacta tcgccgacga atatgcatac tgtattacgt gatttcctta tttcatatgg 480
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 tatctattct ca 552

<210> 6222
 <211> 518
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078a11a1

<400> 6222

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 cgtgccgtcg cttccgttgt tcgattactc tccgcctccg tatgcggggc ccaccgctga 240
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 cgtggatgcg tttggaggga ttgctacggt gtgctgcggg cactgtcacc ctgatgtggt 420
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<210> 6223

<211> 214

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078a12a1

<400> 6223

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 gctgagagtt cttatctgac actcctgaag ttggcgctcac atcacatgac ggacacgatt 180
 acccaccact ttgtacacct tatgaacctg gggg 214

<210> 6224

<211> 339

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078b04a1

<400> 6224

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 ctgaaaagca atctgtcaat acaatagaac aggtggacat attatcaaca ttggcagatg 180

ttgcattgga aagagaggat tttgaaactt ccctctcgga ttaccagaag gcactaacca 240
 tattggaaca actggtggaa ccagatgata gaaatcatgc tgacttaaata actatgcata 300
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<210> 6225
 <211> 528
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078b05a1
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 cccaatacaa cagctcccaa tacaaagcca tcaaataaac ttcagggaaa gatagctgta 180
 gtaaccgggg gtgattctgg aattggacga gccgtgtgca acttgttttc attagaaggt 240
 gctactgtga tcttcaccta cgtgaagggg caagaggaca gggacgcgag tgacacgctt 300
 gagattataa aaaaagctaa gactgaagat gctaaagatc cattggctat acctgttgac 360
 gtgggttatg aagagaattg caagaaagtg gtggaccagg ttatcaacgc ttattgccgc 420
 attgacattc tggtaacaaa tgcagctgag cagtacgaga gtgattccct ggaagatatt 480
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<210> 6226
 <211> 653
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078b06a1
 <400> 6226

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 tcactacctt ttggtagctt atatatctgc tccatccctg gcattctgca atgcttttta 240
 aatcaggtct cacagacata cacatggcat ataattatgg gaaagttgca ctctttactc 300

tggcagctgc tacatgaaaa gaaaatggcg tgggtggctgg acttgtgggt tgtgggtctca 360
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 cacgtacctc tcccagagca atgttcatat gccaaagtaat tggcattgca atgggttgtg 480
 tgacagctcc tcttaacttc ttcctatact acaaggcatt tgatgtggga aaccgcgatg 540
 gggaaatcaa agctccatat tcgttaattt acagaaacat ggcaatcata aggggtcccag 600
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<210> 6227
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078b07a1
 <400> 6227

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 catcatattc tctgtggacg ggaccccaat aaggaggttc aagaatttgg agacaaaagg 420
 ggttccattc ccaaagagcc aaccatgag aatatactct agtctttgga acgctgagga 480
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cacatagggc agcatcctgg tgaacacagt actgcataca ctggatagca ttatgttggt 180
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<210> 6229
<211> 403
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220078b09a1

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<210> 6230
<211> 585
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220078b10a1

<400> 6230
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tcatccagat agtgtctttg aagtcctctt gattaattct ccacgtggcg tgatatatgg 180
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tacggttaat ttggtggtat ttttcgttga gaagaaatta gaagaattgc cagaccggac 420
 aaatgctgct gcagcactgc tgctaccatt aagcaccaat gacaacaaag atggcaggac 480
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<210> 6231
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078b11a1

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 taaacagagg ataagagtgt aattcgcttt gttgcaattt atttttccat ttattttagg 240
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 ctatttaacg gggaagttca gttcgccggt agattgcggt gttgacttca cgcgactagg 420
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<210> 6232
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 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078b12a1

<400> 6232
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 cactcccaaa tggactcaaa gtggcctctg aaacatcacc gactcccact gcgtcggttg 180
 gcttatatgt agattgtggt tcaatatacg agactccgat aagttttggg gctacacatc 240
 tgctagaacg aatggctttc aagaccacta gaaaccggag tcactttcgg gttgttcgcg 300

aggtagaggc aattggtggc aatgtgcagg cctccgctta tagagagcag atggggttaca 360
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 agaaccctg 429

<210> 6233
 <211> 116
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c01a1
 <400> 6233

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<210> 6234
 <211> 596
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078c02a1
 <400> 6234

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 tttatgggaa cgactcaggg gttcctaatt tacggggtgc ataacaagtc ttatggtgaa 180
 agactccatg ctacctctgg aacaatggat gctgcagttt gcagaatttc atgctactgc 240
 tcaagttcct gccaaaccta agaaaccttc tctaaaagaa agacagcata agttgcttac 300
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 cgcagatcat caagaatgct atggagcaag aaatgtacga gattttacat cttgggtttg 480
 tgaggcttgt gacacacctg acatcaagcg gcagtgtgt ctttgatctg taaaaagtgg 540
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<210> 6235
 <211> 246

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c03a1

<400> 6235

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 agacttcata tacatagcgg ctctaaccac ctatagacat cactttcacg ttacaacata 180
 tgtctaata caataagat gttaccattc aatcaacacc tgatggacct caaatcttac 240
 agtatc 246

<210> 6236
 <211> 525
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c04a1

<400> 6236

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 agcccactgt cgcggtggaa cccgtccccg aacctgtctc cgtcgatcct cccccggagg 180
 agaaggagga gaccaaact gaagccaagg ctaagaaaac caaggagccc aaacctaaaa 240
 aggtttccag acctcgcaac cctcccactc atccttctta cgaagagatg gttaaagatg 300
 caattacctc gctgaaggag aaaaccggct cgagccaata cgcgattgcg aagttcatcg 360
 aggagaagca caagcagctt ccaccgaact tcaagaagct tcttctctac catttgaaga 420
 agctcgtcgc cgccggaaaa ctcgtaaag tcaaaagctc gttcaagctc ccacctacca 480
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<210> 6237
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c05a1

<400> 6237

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 caaaagaaaa tctgtcttta ccttaactca gacaactcgt ttggtgaacc atgaaaca 240
 gtattcctgg atgggatttt gagagtgata catgtctcac caaccaaaga aagctcatag 300
 ggccggacca agaacttggt gagctcctat ggaaaaatgg gcaagttggt atgcacaacc 360
 aaacacatag gaagacactt gggaattcat ctaacttgag acaggtgcag aaaagtgatc 420
 aatcagtatt aaagtctaac ggtccctatg gaaactcaag caacttggat caagaagatg 480
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<210> 6238
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c06a1
 <400> 6238

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 cttgtaaagg gatggaggtc caaatggaag gcccatgctt gatctctagt ctcatcttc 180
 agcaactgtg aatcaactgt tctgtttaat gggcgccaac atagcaaag agatagctgt 240
 ggagaagttt agtgaaacaa ctgttgata caggctcaat agaagagttg cttggagatg 300
 ggtcccagat gtttattcac acttat 326

<210> 6239
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c07a1
 <400> 6239

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 gggctcctct tcacgcggcg gaagccaagg gacagtggca gtcctccac aaaaacatcg 120

gcattgtcgc catgcacatg cagcttctcc acaacgaccg cgtcatcatc ttcgaccgca 180
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 cattccgcgc tctctttgtc caaaccaatg tctgggtgtc ctccggttcg gtctctcccg 360
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<210> 6240
 <211> 574
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c08a1

<400> 6240

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 ctttaattctg cttccagttc ctctgagtga tgggtatgat ctctctcac tcccacaatt 180
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 gtgcaaagtc taaaccaacc caccataagt cttgttccca tgcgagtggt caagctttat 420
 gcgggttcaa acatgtcact tctctcccaa aacgaaaggc tcccttgctc ctctgaagtc 480
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<210> 6241
 <211> 499
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078c09a1

<400> 6241

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ttaataaagc aaaagcaaaa tgcacacaca ttccccaac aaaacatgct tattcaaccc 180
 aaattggttt catatcacia aaaccaacag gatgttttcc tccttaccg tcccacccac 240
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 aaaaccgatt ttgtctttcc ctactttcc gttgataatc tcaattactt agtacctgta 420
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 aagcttggtg agctcaact 499

<210> 6242
 <211> 553
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c10a1
 <400> 6242

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 cagttattca aga 553

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 <211> 458
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c11a1
 <400> 6243

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<210> 6244
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078c12a1
 <400> 6244

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 caattattga ccagaatttg tattatttgg ggatgaagta cacaacaagg acctttgccg 360
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 agaagattaa aat 433

<210> 6245
 <211> 632
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078d01a1
 <400> 6245

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 accaaagtga gagagaaaat gatgaagcca tcgatgetca gatctcttca ctctgccgcc 180
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<210> 6246
 <211> 436
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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<210> 6247
 <211> 320
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078d03a1

<400> 6247

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tggtgggcaa ttcattcattg atgttgcatg tcccagttgg atgcttggcc tggaagcaaa 180
caatgtattc cagcgggtaca ctgttcctgc aacttgcatg atagtacata cctgactacg 240
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<210> 6248

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078d04a1

<400> 6248

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tatccatact tcgtatcggt tatccattta ttcgtgggtg tggcgtagct gttggtgagc 480
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<210> 6249

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078d07a1

<400> 6249

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<210> 6250
 <211> 573
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078d08a1
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<210> 6251
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<212> DNA
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<223> Clone ID: jC-gmf102220078d09a1

<400> 6251

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tctccatta tttcctttga gatttggaca gtagttggtc atacacccaa ttctaaatta   300
gagttgggat gtctggagga gtagttgat acagtgatgc atctccacag atacttgagt   360
aaagctatat gctgtggtgt agatttttac tatggagtta aatgcaagtt atgacgtcga   420
gcattcacat tctacacaaa gaatacagca tgagctgtgg cctctagatc caattgatcc   480
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<210> 6252
 <211> 544
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078d10a1

<400> 6252

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gcggtcata ggcaattaag tgctatgcat ccaattttca agttgttgga cccccacatg   180
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attgaaaatt gctttactcc tggctgctat gccatggaga ttagttctgc tgctacaag   300
aacttttggc gctttgacat ggatagcctc cctgcagatc tcatccgcag gggaatggcc   360
gtacctgacc caacacagcc acatggtcta aagctcatat tggaagacta cccttatgca   420
gctgatggaa tactaatctg gtctgcaata gaagactggg ttcgaaaccta tgtgaaccat   480
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tcaa

544

<210> 6253
 <211> 447
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078d11a1
 <400> 6253

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 ggttatcaag gtatcctgtg agagttgttc tttgtgctta tatgatattg ggatcatccag 240
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 ttgtccaaat gtttgagctg ttggtaaaga ttatactaga ggggccaata cgaagttttg 360
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<210> 6254
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078d12a1
 <400> 6254

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 tttatcacct ttttaaacc cccccctccc gcaagaacca gactattagg aatagggttaa 120
 gacagacagg gttatacaaa gacagtttca taaaattgaa acaaccttca accttgaacg 180
 ggtatatcta atattttctg aaacaatttt tacatgctaa aagtaatgat tgctgagaca 240
 ttatatagtt tccttttagag gcctttatca ataacggaag catttagatg tttcctgcta 300
 aaacctaaaa atagtttggg agaatggatg cttccgagt agtttctctg tttatctatt 360
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<210> 6255
 <211> 634
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078e02a1

<400> 6255

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 taatttggtc taggggtgag ttccctctg ggtgttggtga tcttcttggt cgttttggca 180
 tatgggagat cttgggggtcc cttgggtgg ttggttcca gtgagctctt tccattagag 240
 ataagatcat ctgcacagag tattgtgggtc tgtgtcaaca tgatcttcac tgcacttggt 300
 gctcaattgt tctcatgtc actttgccac ctcaaatttg ggatcttctt gctctttgct 360
 tccttaatta tcttcatgag cttctttgtc ttcttcttt tgcccgaac caagaaagtt 420
 ccaattgagg agatttatct tctttctgag aatcattggt tctggaggag atttgcact 480
 gaccaagacc cagagacatc aaacgggact gctttaaatt ctcaaccaat agattgaaca 540
 agtggttggtt ttatggttct ctttctttat tctgagtcaa ttattcttac ttgcagcttt 600
 gcaaaaagaa taatctgtac gacatttttt taaa 634

<210> 6256
 <211> 638
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078e03a1

<400> 6256

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 atttttttat ntataattta ttttattttt tataagatat ttaggggggt tattttacta 180
 attgtggtgt gctattttcc atatttacca accaattaac aaaggatat atatcatcat 240
 atcatcacca aatgaaatat tgggttggtt tttcttggtg tgggtggctac ttttgtggtg 300

gcagccacag ctggtagctt ttaccaagac tttgaaataa cgtgggggtgg tgagcgtgcc 360
 aaaatctatg agaatggaaa ccttctcaca ctctcccttg acagagcctc tggctctggc 420
 tttcgttcca aaaaagagta cttgttcgga aaaattgaca tgcagctcaa gcttgtgcct 480
 ggtaactctg ctggaacagt aactgcctat tatttatctt ctctggggcc tactcatgac 540
 gaaatagact gtgagttttt gggtcacttg agtgggtgatc cttacactct ccacacgaac 600
 gtattcagcc aanggaaaag gaacagagaa caacagtt 638

<210> 6257
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078e04a1
 <400> 6257

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 gatataattga ggaggggtga tctgatgccg acttggttct tttgggtgact acaagaccta 180
 caactggaaa tacacttgcc tgggcagtgg catgtgaacg agatcaatgg ggtcgtgcta 240
 tagctggaca tgtaaatgtt gcgcctcgcc atttgactgc cgaggcagag actttgcttt 300
 tagctactct gatacatgag gttatgcatg ttcttggttt tgatccacat gcctttgctc 360
 attttagaga tgaaaggaaa agacggcgta atcagggttac tgaacaagtt atggatgaaa 420
 aacttggaac aatggcaaca cgtgtggtgc ttcctcgtgt tggcatgcat tcttgatata 480
 attatgcggc tttctcagga aatttttc 508

<210> 6258
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078e06a1
 <400> 6258

gcacaacgaa ccactctgaa tctgctcacg ttatccacaa cactctaaac cctgggtgaa 60
 ccctaactaa tccaaccatg ggttcttggt ccaccttgac tggaatgtgc gcctgcaagc 120

tctactcctg cgccgacatg ttctacttgc cctcccgtcg cctgtccaac gccgatgac 180
 tgtccaggcg caaacgctcg cgacagggtc tccgccatgg ccagtgagtt gcactgcaac 240
 aaagacggca ccggagttga taagctccag agcgggtgtga acaagctcgc ggatctgggt 300
 ggggtcacgc ttggtcccaa gggaagatat gttgttctcg agagcaagta tggctcgccg 360
 aaaatcgta acgacgggtg cactgtcgct aagaggttga gttggaggat cccctgaga 420
 atattggtgc caagttggtg agacaagcg 449

<210> 6259
 <211> 548
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078e07a1.
 <400> 6259

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 gtgatcgaac tcaataccct aaaagccatg gcccaatccc atggatccat cctcactcga 120
 tcagtgtggt cctccaatct cgaatcggag ttcgacttaa tccgatccgt catcgattcg 180
 ttccctctca tctcgatgga caccgagttc cccgggtgtcg tctgtcgtgc cgacgccggc 240
 gacccctcct ttcgacaccg acaaccggtc ggcactacg ccgtactcaa agccaacgtc 300
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 accctcggtg cctccaacgc cttcatgtgg gaattcaact tcaaagattt cgacgtcgcg 420
 cgtgacgccc acgtcacta ctatgtggag ttgctgcgcc gccagggcat cgatttcgag 480
 aagaatcgcg acttcgggat tgactcgttc cggttcgcgg agctcatgat gtcgtnccgt 540
 ctggtctg 548

<210> 6260
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078e07d1
 <400> 6260

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 aatagaaccc aaagaattaa tacttcctaa tggatattga taagccagag aaaatgtgta 180
 agctttacaa tttaaagctg agaaaagaaa cctaggccaa attgattact attatttcat 240
 atataagaaa gctcagaaaa cctccaaacc atacaagaca ccagcgtact gaacaagtcc 300
 gtcagccttg tcaaagtaat tctctctgat attctgaaac gcgtgcagag tgagcaaact 360
 atcagaacca gcctgatgac tttttccaat aacacgttcc accttcagcg actgacaaac 420
 acggtccaat ccaccgtgca ggtttgagca gaacctcatc aaatgcttca catcaaagac 480
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<210> 6261
 <211> 573
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078e08a1

<400> 6261

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 gacggcaatg gaggaaaagc acgcagcagc caatgaatct gcacacgccg aatccaacgg 120
 cgtctgtcac ggcgccgacc acggttggca gaaggtgacc tacgctaaga agcagaagaa 180
 gaagaccgtt aacgccgaca acagcgccga ttcccgcgcg aattccaaca agctcggttc 240
 gaacggcacg ctgtgcggca acgatggcgt tttccggctg ctcgagctgc agtcggagga 300
 ccggcgccgg ataattgtgg aggcgaagaa gctggccgat gccgcgtacg acgacgaaga 360
 cgcgcgcttc agatcgaagc agcggcacca cgacgacgac taatacgact acgatgacga 420
 gaatgtggac cgttctgcag agaacgggaa ggccgaggag gcgaagaatg tgaagcagaa 480
 gaagccgcag aagcctaatt tgacggtggc ggaggcgggc gctaacatcg acgccgctga 540
 tctgggcgcc ttctcgtgg agatatcggg atc 573

<210> 6262
 <211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220078e08d1

<400> 6262

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 attttgccag cataagttaa tgtaaaggca tagtaactaa aattaaaact caacagaaac 120
 aagaacaaca aattgattat taaatgggtca aactaaagta aacctcaaag cattgttgac 180
 ctcaactact ttctgtcatc cgaacaggat ttgaactacg tgtccaatct ccgcattaag 240
 cactttatta tgaggctatt ggtttactgt acccattgtc atttgtgaat gagatgggct 300
 gaaaataaaa ttgccttttg taaacaacca actgcggtaa tgctgaatat tctccagagt 360
 tctcaatgct taacgttgaa aagttcacag agctttttta aatccaaaga ttccaaattg 420
 ggggacaagg aaac 434

<210> 6263

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220078e09a1

<400> 6263

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 ttggatgggt ttgagaacac cactagtgat gctggcaaaa agatgaagga tttgttgact 180
 ataggcatgc atatgagcag caatgccctt gccattgtaa cagatttggc tgacactgtt 240
 aatgattgga atatcacaaa atcatttggg cgtcgcctcc ttcaagatta tgagcttccg 300
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 aatgttactg tagccataga tggtagtgga gatttcaaaa gcatcaatga ggcattgaag 420
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<210> 6264

<211> 574

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078e10a1

<400> 6264

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 gtccccctt ctgtgccac ttccaaatct tctctctcg ctatgggttg tggctcctcc 180
 cttccagata gggattcaag gcagttgggt cgacccaatt ccgagaatgg tggagggcag 240
 gacgccaaga atctaagggg caagcttggt ctcttaggtg attctgggtg tggcaaaagc 300
 tgtattgttc tacgatttgt tctgtggcag tttgatccaa catctaaggt aactgttggg 360
 gcttcttttt tgtcacaac aatagctctg caagactcta caacagtcaa gtttgaaata 420
 tgggatactg ctgggtcaaga gaggtacgct gcgttagcac cactctatta ccgtggtgca 480
 gcagttgcag ttattgttta tgatataaca agcccagaat ctttcagcat agcacagtac 540
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<210> 6265

<211> 501

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220078e11a1

<400> 6265

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 tgttgctgct caccctggc acgatttaga gattgggcca ggagctccag ctgttttcaa 180
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 acttataaag gttgatcgta ttctttactc atcagttgcc taccacaca actatggttt 300
 tateccaaga accatttgtg aagacagtga tcctatggac gtgctggttc taatgcacga 360
 acccgtgctt cctggttcct tccttcgtgc tctgtctatt ggactaatgc ctatgattga 420
 ccatggcgag agggatgacc cgatcatagc agtttgtgct gatgaccctg agttccggca 480
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<210> 6266

<211> 450
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078e12a1

<400> 6266

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 gcacctcagg cttgtgcttg gtgactacgc tggaacagac actggctatc atttatcttg 180
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 ttacgctctg cacaccaacg tatatagcca agggaaaggg aacagagaac aacagattca 300
 tctatgggtc aacccaccca atgactatca cacatactcc gtccaatgga atgctgcaga 360
 gcatcatatt ctctgaggac gggaccacct tatgggagat caagagtttg gagacataag 420
 gggttccatt gccaaagagc ctacccatga 450

<210> 6267
 <211> 675
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078f01a1

<400> 6267

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 tatggcatgt tatgatcacc acttatagtc acagcacttc ggagcgcttt aatctccaag 180
 cgtgagattt tatgcactgt ccattcacag atgcacaggg ttgcctaaaa ggcgtattct 240
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 tgaacttaga gagagctcaa tttagtccga gttatggaat gcctttgttg tactttatct 360
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 gatgtaaata tcaacttcac caactcaa atagcatgtgt ttgattttcc attaagacgt 480
 aactagttag tacttttccg tttgggaatt tgtgggtgag aaaaaacatt atgttatcaa 540
 gaagataagg aagaagaatc aaaggctcct ggagttcaga aagctcta atgtcattgggt 600

aggaactggg tccagagtat caggaacgtg ttaagaagct gaagaaagat catggaagtg 240
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 tagtatggct aggctcagct gctgaccgg atgaaggaat tcgctttaag ggcatgtcaa 360
 ttctgaatg ccagaaaaag ctttcaggtg cttttcctgg tggggagccc ttgcctgaag 420
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<210> 6270
 <211> 537
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078f05a1
 <400> 6270

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 tgggggcttt ggatttcata gaagtatgat gccagtctt tttggagaca gggaccatt 180
 tgatgatccc tttttcactg atccatttga tagcttggtt ggtccaagtt ctgcatcaag 240
 agcaatgcag aagacaaata gagaaaaagg aatagttata gaagaattag actctgatga 300
 tgaggggggt gataacggcc ctgaaattgg agacaaagat tttgataaga aaaaatctaa 360
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 tgatataact tacaagaatg accattacat ggtggaacct ttgaaagctc gcaagttttc 480
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<210> 6271
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078f06a1
 <400> 6271

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 gaaagttag ttcaagttac agtacttctg attttggtca ctttggagtt ctacttcctt 120
 ttcttctgtt atcacagttg ttctttcaac ttgcatgggt tggctccata gtaaagtccc 180

ttcctggatt agagggaccc cttgcttttg ttcttgaaac cgggtatgtg ggagcgggcg 240
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<210> 6272
<211> 490
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078f07a1
<400> 6272

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gacatatgac tgttctcacc acttgctcat gaggttgccg ttgcatcaca tggaggacat 180
gagtaccac ctggggctta ccaaccacca cctgggggct actctccaca agatggatat 240
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gattatggag ctcacatgt atatcatgga tgccatggat gctatggacg tatgcacatg 480
gtgctcacat 490

<210> 6273
<211> 186
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078f08a1
<400> 6273

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atgtgattgc tattatgacc actatgaatt gaatgccatc tgcttgggtt tgcagaacaa 180
gaaaac 186

<210> 6274
<211> 364
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220078f09a1

<400> 6274

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gttgggactg cccggctgtg atgaaactaa tgagaaaagt tcatccagca gtggatctgt 240
tgttagaagc aacaagagat cttcaccaga acccagtgtg gacgagtcca ggtgcaactc 300
taatggttct tcacattcta ccaccacaag tgatcatgat caagacagtg cccaacctga 360
aaag 364

<210> 6275
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220078f10a1

<400> 6275

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gaagccagac aaaccagata agcgggcatc tataagccca caaagggttag aatgtgtttc 360
tcctgaaagt tgtactggga aatcaggcgg tacagctcaa atgagtattg agtgtattaa 420
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tctgatg

487

<210> 6276
<211> 319
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220078f11a1

<400> 6276

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gaggtgttat tcagcagata ttgaggagga aactacaccc tcgggttact aactctccct 180
tgctgtcacc catggtagcc aagaaagatg atgctggctc ttctggcagc cagcccttaa 240
gagcacttgc attaaactgga gctggtttat caggcctttt caggctcttct aactggcat 300
cagctgatga agctgagca 319

<210> 6277
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220078f12a1

<400> 6277

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catggggggg gggctctatct caaatgccag cctgttcaac tctacaattt attaaactatt 180
gcacctctt agactgcttc caattcctat gtatgatgga tatcatctat actaactccc 240
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aactgcactg cctgatcctc ccttttactt cttatgtagc atgtatgaac tcaaatcatc 360
aatgaatat gaccctttta tctaagaaga agaaaaaac acacacatac acacacacac 420
tttaaagtcc aaagtctaaa ccaaccacc aaaagtcttg ttcccatggc gagtggcaag 480
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<210> 6278
 <211> 594
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078g01a1

<400> 6278

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 ttttttagggg gctttaacct ttgggggggac atgactatcc tcattgagca atctgatcac 180
 tttggggctg aagtacaggc aaagactgaa ccagtaaata acagggaact ggtgtcggat 240
 ggtggatttc tgataccaca gaccaactca tttgggcaca tgttttagggc ttataatgat 300
 gctgcaagtg agaggcgtga aggagtggag aacttctaca gaaaaaatca cacttaccaa 360
 tcagttgatt tcgtgaagaa aatgagagag gagtatgcaa aattgaacag ggtagagatg 420
 agcatatggg aatgttgtga actccttaat gaagtggagg atgagagtga ccctgacttg 480
 gatgaacctc aaattgagca cttgctccag acagctgaag ctataaagag ggactaccca 540
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<210> 6279
 <211> 581
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078g02a1

<400> 6279

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 ttnttctccg tctgggggtcc cttttctccc taggggtgtc ctctactgaa tccctataga 180
 gagaaaatca taaaccctaa ttcccctgtc aagctcgtag cacagtcaca gccatgtatg 240
 gcggtgatga agtatcagct atagtaattg acttgggttc acacacttgt aaagctgggt 300
 atgccggtga agatgctccc aaggctgtgt ttccctctgt tgttggagca attgatcaaa 360

tggatgttga tgaagcagat aatggtgaaa agaaccctgg ctctgctccg gaatcaaata 420
 ataataatgt tagaaatgct gattctgaca aggccaaggg aaagaggaaa ttgtatgtaa 480
 gatcccagtc cttgggggtac cgcagagacc atatggaggt gctgtcttca ttttaaggatg 540
 gagttgctgc tgactgggat attggtgaca gcatatggga t 581

<210> 6280
 <211> 600
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220078g03a1

<400> 6280
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 tccatttctt ccttctgggt caatatccct tttgggagct gttgcttagc agcatctcaa 180
 gctcccacca ccaaatacaca ccctatatc ctteccatta agaaagaccc cgcaacaaat 240
 ttgtactaca cttcagttgg cattggaact cctaggcaca actttgattt agtcattgat 300
 ctttctggtg aaaacttatg gtacgattgt gacactcatt acaactcatc atcctacaga 360
 cctatagctt gtggctcaaa gcaatgcccc gaaattggat gtgttggttg caatggcccc 420
 ttcaaaccag gttgcacaaa caatacatgc cctgctaattg taatcaacca attagccaaa 480
 ttcatttaca gtgggtggctt acgtgaggat ttcattattca ttcgtcaaaa caaagtgtct 540
 ggtttgcttt ctagttggat tgacaccgat gcatttccat cattcttoga cgatgagtta 600

<210> 6281
 <211> 427
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220078g04a1

<400> 6281
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 cttgagctga attactactc taaaagctgc ccaaagctg aagagatcat caaggaacaa 180

gtcacacaac tatataacaa gcatggaaac actgccgttt cgtgggtcag aaatctcttc 240
 cacgattgcg tggttaagtc atgcgatgca tcattactgt tagcgacggt gagcgatgta 300
 gtgtcggagc agacatcgga tagaagtttt gggatgagaa acttcaagta cgtaaact 360
 atcaaagcaa cggttgagaa agaatgcccc ttcacagtgt catgcgctga cattgttgct 420
 ctttctg 427

<210> 6282
 <211> 541
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078g05a1

<400> 6282
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 tgaaaagggc ttcctttaat aagaatccat ctgaggatgc tgatttcttg cccttggaag 180
 gtggccctgc tcgtaagctc gccggccagc agaagccgcc gccgccgccg gagaacaccg 240
 ccacggtttt gtacgtcggc cggatccac atgggttcta tgagaaggag atggaagggt 300
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 aatcaagaca ttttgggttc atagaatttg aatctcctga ggtagcaaaa attgtggctg 420
 atactatgca taattatctc ctttttgaac accttctcca agtttatgtg atacctccag 480
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<210> 6283
 <211> 537
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078g06a1

<400> 6283
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taaaacccca actatcctct cgtctctgcc ctcacctgca gaacagaacg cagtgtctca 180
 tttgtctccg catcggcggtg gcaacaacac cgccgagaag ataacctctt caatcggaag 240
 atgaacgctg ataacgggtc cagagacacc aaactcgaca accaacacgt ttgtctcttt 300
 ccactttttt ctctgttctc tctcttagga aacgaaatat actgtaaatt gaaattcgat 360
 tccactattht aacggggaag ttcagttcgc cgctagattg cgttggtgac ttcacgcgac 420
 taggtcatat taggctcgta ggatagtga attgttcttc tataaaggat taaccctaac 480
 tatgttattht aatatgatga gattattcta tgctcattct ttggttttgt tggattt 537

<210> 6284
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078g07a1
 <400> 6284

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 aactctttaa cagactgaag ccattcatag gtgtagtgtt cttacagttt ggatattgctg 120
 gcatggatat tctatgcaaa gctgcactga acaagggaat gagtaactat gtatgtgtcg 180
 tgtaccgtca tgtttttgcc tttgttgta tggccctttt tgcactgac ttggagaaca 240
 atgtagggcc gaagatgaca ttttcaatct tcatgaagac aatgattctc agcttgctag 300
 agcctgggat tgacaaaaat ttgtattgtg cgggcatgaa gtacaccaca gcaacctttg 360
 ctgtcttcat gtacaatgta ctccctgcca ttacctttgt catggcttgg attcttaggc 420
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<210> 6285
 <211> 545
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078g08a1
 <400> 6285

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 taatgggttt gcagatatct gctggagttg gaccttattt caatgacttc atcttgctct 180
 gccatcccac cacgttgatc ccatgcggaa ggttggttca ttgaaagggg agaatgcatt 240
 atcaagtgtt tcacaaagat aaactttcac ctttatgcta aatgagagag cagtgccttt 300
 tttgatccc agtgtggatc taagtatgac tggattgagg gaatggaaaa ttaggaagga 360
 gatggacctt ttcatttcca actggttgct ctttaaggca gaagcatcca ccaggagatt 420
 gccatggtga acagttgtca gtcactctggc acaaagttgt cgggccacgt tgcttgact 480
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 tcatg 545

<210> 6286
 <211> 325
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078g09a1
 <400> 6286

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 cgagtgtgta cagagatgag tgtctataaa cgaggagagg ctatgcttga tatcatatgg 180
 tggatggctc aacgattttg gtgggggggca gaaataggag agaattaatt gcatccatcg 240
 tggtttgctt tgttaagtaa atcttggtat ataaaaaat aagtgctatg tgataaggag 300
 tccagaccct aaataaatcc aatgt 325

<210> 6287
 <211> 581
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078g10a1
 <400> 6287

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tctctccccct ttctttttct ctcttctactc tcacccttat ctctctccatt gcagcttctg 120
 cttttttcttc aaatcaacaa acaaacaaaa ccatcccat ttcatttcag aagaaaccct 180
 tttctttccc aagcacaact gtttcttct acggtggaac attgaccatt tgaaatagtt 240
 gtgcaacagc ttccattatt tggaaaaaaa aaaaagggtc ttttgattct ttgaagcgag 300
 aagatgcaga ggcctccacc agaagatttt ctggtgaagg agaccaaacc ccaccttgga 360
 gggggaaaag tctctggcga caagctcact agcacttatg acctagtcga gcaaattgcag 420
 tatctctatg tgagggttgt gaaagctaag gacttacctg caaaggatgt cactggcagt 480
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 aagaagtcta atcccgaatg gaaccagggtt tttgctttct c 581

<210> 6288
 <211> 499
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220078g11a1

 <400> 6288

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 tgttttcagc atttgaatcg tggcttggtg ccgagcactt caagaggggc tctgatcaac 180
 aatggctatc attaacattc tcaaaggcta tatttcttgg aaatgggtctt gttgctattt 240
 tgtctgggct gtttggaaat gtacttggtg atacattggc tcttggacct gtggccccct 300
 ttgatgctgc ttcattgttt cttgctattg gtatggccat catactatct tcatggtcag 360
 agaatttcgg ggatccttca gagaacaagg acttgcttac ccaatttang ggtgctgctg 420
 tggccattgc ttctgatgaa aagatagcct tgctgggtgc catacagtct ctctttgaag 480
 gttcaatgta cacctttgt 499

<210> 6289
 <211> 527
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220078g12a1

<400> 6289

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 ctacatggat cgacccccaa gaaagagagc gcgtttgggc tgggacatcg ctgaggcccc 120
 caaggctcag gtaggattgt tttgtggaca agaggttgag aatatctcaa gctatgctcc 180
 ttgagaacat cccctagtt ctatgtttaa gggagttgcc cgatatgggt ccccccatg 240
 gcgagatgat gacaaagatg gccattacat gtctgagctt ggagataatt taacttctcg 300
 ctataagatc catagtaaaa tgggcgaagg aacttttggg caggtcttgg agtgctggga 360
 cagagaaagg aaggaaatgg ttgccataaa aattgtccgt gggataaaga agtatcgaga 420
 ggcagccatg atagaaattg aggtattgca acagcttggg aaacacgata aaggtagcaa 480
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<210> 6290

<211> 567

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220078h01a1

<400> 6290

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 agatgggtacc aattcattaa acatggctaa tagacgaatg agagctaact ttgagttcat 180
 aagcaaactc ggtgttgact tttggtgttt ccacgacagg gatatagccc ctgatggaaa 240
 aactcttgag gaatctaata caaacttggg tgaagtgggt gcccttgctc aagagctcca 300
 gactaaggct aaaaaaagag tggttatggg aacagctcag ttgttcacgc atcctcgtaa 360
 catgcatggt gctgctacta gctctgaatt aaaggtctat gcatatgctg ctgctcangt 420
 gaagaaagcc atagaggtga cacattattc tgggggagaa aattatgttt tctgggggtg 480
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<210> 6291
 <211> 591
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078h02a1

<400> 6291

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ttttcattgg atttaggggc cttttgaaac cggggggtca agcttacaac ctttttcttc  180
tcataattcg cctcaagatt caccgcaggt ccctgcattt tcgaatttta tgccctttcc  240
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gccgcaacat gaggagaatg ggaaccgcgg agctggcata tatgctgttc ctgttaaccc  360
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accagtagc aggccaagtt ctgaagctgc tgctgccagt gaaaatcagg ggcaagcagg  480
acagctacct caacagcagc agcctgcacc ttaaagacaa gttgttggtta ggagatttca  540
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<210> 6292
 <211> 593
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078h03a1

<400> 6292

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tctttcttct ggggtatttg tttttccttc tgctgttgct tctagcacac tttcatttgg  180
gcataagcca acttgagctg aattactact ctaaaagctg cccaaaagct gaagagatca  240
tcaaggaaca agtcacacaa ctatataaca agcatggaaa cactgccgtt tcgtgggtca  300
gaaatctctt ccacgattgc gtgggttaagt catgcgatgc atcattactg ttagcgacgg  360
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acgttaacac tatcaaagca gcggttgaga aagaatgccc cttcacagtg tcatgcgctg 480
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<210> 6293
<211> 606
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220078h04a1
<400> 6293

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caatctcttt tcctatctct cagggaccca tatccaacat ggcaatactc ttacttctct 180
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cgcac 606

<210> 6294
<211> 463
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078h05a1
<400> 6294

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aagctggaaa tcgatgacga cctgaagctt caggcatttt gggacaagag gatcttccag 180
gaggtccttg gtgacgccct gggtgaggag tttaaaggat atgttttcaa aatcactgg 240
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<210> 6295
<211> 508
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078h06a1
<400> 6295

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ccaccatcat ggtttcactt ggagctacct gtgctctgtg ctgttctatg ttcattggtgt 180
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<210> 6296
<211> 470
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220078h07a1
<400> 6296

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<210> 6297
 <211> 555
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078h08a1
 <400> 6297

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<210> 6298
 <211> 563
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220078h09a1
 <400> 6298

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 tctacttttc catttttttg gggagagaga tctgattctt caccataagt gtcattgctt 240
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 gttcttcac cccgactcga tcaatggagt gaatttcgac gtggcggcgc agattaagat 480
 ggtgtgngaa gtgatcaagg cgccattgat cgtgccactg ctgaacctcg cagtgtacat 540
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<210> 6299
 <211> 315
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220078h10a1
 <400> 6299

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 tctgattctt cctacacatg tactactggc gctgccgctc cctgatcaaa ctgccgatga 180
 ttaccaggc gcagccgccc caccagggc tggcgcgatg cctaagagtt gcacttcaac 240
 aaaaacggta ccggaataaa taagctgcat agcggagtta acaagctcgc ggatctaggt 300
 gctcccactc ttggt 315

<210> 6300
 <211> 438
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220078h11a1
 <400> 6300

ctcgagccga atcggctcga gcttatctca aacctcacct caataatctt tcgtgctagc 60
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aggaaataaa ataatatggc attcagcggg acccaacaga aatgcaaggc ttgcgacaaa 180
 actgttcact tggtcgaagg tttatctgtc gatggggctg cttatcacia gaattgcttc 240
 agatgcagcc attgcaatgg ccttcttgcg ataagcaact actcatccac cgaaggggtt 300
 ttgtactgca aggtgcactc tgagcagctc ttcaaggaaa ctggcgccta cccaagaaa 360
 tcccagtcgt ctggaaagcc tccactcgag ctgaatagag caccaagcaa actttctgcc 420
 ttcttctctg ggactcaa 438

<210> 6301
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220078h12a1
 <400> 6301

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 caaaatttaa catcaagatt gctgattttg gggtgagcaa catcatgcgt gatgggtcact 180
 ttcttaagac aagttgtgga agccctaatt atgcggctcc agagggtatc tctggaaaat 240
 tgtatgctgg accacaagta tatgtctgga gctgtgggtg aattttatat gctgttctct 300
 gtggcactct tccttttgat gatgaaaaca ttcccaatct cttcaaaaaa ataaaggtg 360
 ggatatacac tcttgctagt catctatcac ctgggtgctag agatttgata ccaaggatgc 420
 ttgtcgcgga tcccatgaag aggatgacca tacct 455

<210> 6302
 <211> 184
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079a01a1
 <400> 6302

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184

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<210>      6305
<211>      541
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220079a02d1
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<400> 6305

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 cgtcataaag gcagataaaa gcaaatacat acaacacagg accttaaggc tcaagcacag 180
 cacaatacta tgtgacttaa acggtgacac aattcagcaa ttattcttaa agcactacgg 240
 atttgctgaa tttgttcata attttagagc cttgttagtg tagaatcaca cattcttgtg 300
 aaccagctac caccacagta ggggtgtcgc ttgtgctgac tgcatacaact tctttgacac 360
 tttcaacgtt gacatcctcc aattcaccac agccaatggc ttcaaaataa gatcattgac 420
 ttcttgaaac ctctcttgag agaggacac ctctgcaaga agcctccaag cattgccttc 480
 agatgcctca tcataatcct tcttctctt taagaccatg tgcccactaa tttccacac 540
 a 541

<210> 6306

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079a03a1

<400> 6306

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 aagtcattc ttatttctgg cttgatgagt actcagaaaa agatgatttt gcgcgatact 180
 ggaaaaatga atggatgagt ggtttgacgt catggcgcaa agcactgaag attccagata 240
 ctgatgtcat aatggaagat ggatgtgcta aggtcactga tcaagataaa gcttttgttg 300
 tctggaatac tgggtcaatg ttgagcattt gtaattgtag ttgggcacaa gatggcaacc 360
 tttgtgagca tattctgaaa gttcttagta tctgccgaaa gaggggggtcc attttaccat 420
 ctgtcacttt atttcaggat caccaggcac taaataacat gctgcattgc cctccttttg 480
 attcctttat tcgtgatcac gctgtgtcat tggcagtttc agctcagaag cag 533

<210> 6307

<211> 527

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079a03d1

<400> 6307

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 tctgtgtac tgattcacga ttttaatttca ggtatttgat cccaaataga catcctcctt 180
 gatggtacct gaattttcac ccgtatcaac tgcaagtggc tcggcagggtg taactgttga 240
 cgggggggctc aagtggctat cagcatcttt agtgcaagaa atgactctgg gaacctcatt 300
 gacaccattt tgatgtattt cacaatgctt cacatcctct gttgttgatg aaggggtatc 360
 cacatccata gcacaatctc tgccaccttt atctgaaata ttttcttcaa tcttatcatt 420
 aggcaaagca ccattttcag aagcggagat ctngttttct atagtagcca agcccctctc 480
 tttngtttct tggaatgcat cacctgaaac ggtatcatca acagggt 527

<210> 6308
 <211> 183
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a04d1

<400> 6308

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 acaagcgttt tcgcaataat taacatctcc tcatccgtga taattaacag cattgtttat 120
 cttaattaat tttctcgtca tttagagagc gagcatcacg agggaagcga tggcggaagc 180
 agc 183

<210> 6309
 <211> 490
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a05a1

<400> 6309

caacctcaca attcgaagtt caaaccccaa atcttcaaaa acctcacacc aaacccaaaa 60
 taaaaaaaca acgtaaaaac cttaataata gcaaaaaccaa aaccacactt gcagtcaaatt 120
 gttcttcttc tcttccccct tctcttcatg cttcagagct tcacaacgta ccaaccacga 180
 tcccacaaac ctcaccacct acatctacca caccgaatac ggcaccgttt cactgacatg 240
 gtcgcgctcc ctgctaggcc gctccctcca cgtgaacctc cacaaccggt cctccttcca 300
 ccttctcttc aagccatgga agaaaaacgg gtccaagaag ctttctcaca atacggtctt 360
 cctctggaac ctctccatcc gtaggttcga gtctggactc gaacctcgct ctagattcta 420
 cctcgccatc gaggtagaac atggcctcag cctactcatt ggggacttat ccccaggagt 480
 agtaaggcca 490

<210> 6310
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079a05d1
 <400> 6310

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 tcttttgact tctctcgaca aacaggcttc catacatgca aatattcaag cattacaaga 120
 acttgaattc aattggtttt gggtaaatta aactatcttt tgccctaatt aaagactaaa 180
 ctcttagagt attaagaaca tatacttttc tatacacatg gaaatctaaa ttcattcttt 240
 ctccccctaa acttttactc taaaggaaaa caaataaaca aaaaatttaa ccacccaaat 300
 tatgtgttca ctttctccaa gcataaacca ccaaagaaaa cccaagagga accaccaact 360
 cattctcttc cacactggac cattccataa ccgaagaact tcccccaaag atccaccaga 420
 agtagaagac accgacaaag acgaagaag 449

<210> 6311
 <211> 541
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079a06a1
 <400> 6311

<400> 6313

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 cacgaagtaa agagacaagt tacatcagat gggttaaaact tggttaaaga gtttgtgtat 180
 gtgtgtgaaa gtagtttaag gctgtggggg tggttgaaga agtttttttag ctttggagat 240
 agagatgtca ggtgggtggag gcagcatagt gaggttcaga agagatctga ggatagaaga 300
 caatccaaca ctgacagcaa gagtgagagc tgttgctgag gtcgcagttc tcgtattggc 360
 acctgaagaa aaaggccaat actaccctgg caggggtctct agatgggtggc tc 412

<210> 6314

<211> 453

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079a07d1

<400> 6314

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 aacattttta atctgagttt attagtagac caaagatcct atggtgggctc tntctccctc 120
 actacacaaa ctatactata cagcaagttg caaatattgt acaagaaagc agaagggact 180
 gcagatgaac tgccgtatga attgaaattt ccatacacat tggagggtcag gtggtggtaa 240
 aggagaagga aattaacaca tgtatgttca atgcgggctt aacacctcac tttctctcaa 300
 cagaaaagtg gtagtgtaat ttccacctcc ttgcttctag tctaattgct ttagatatga 360
 attaccagct ctgaggtagc tgctccaat tcagcatttg gtgagactga ggatgccttt 420
 gcaagaaaga tgaactgttt gttataccat ttt 453

<210> 6315

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079a08a1

<400> 6315

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tcgctcttcc cttcctggtg gcgacaatgt cgactcctgc taggaagagg ctgatgagag 120
 acttcaagag gctgcaacaa gacccgcctg cagggatcag cggtgccccc caggataaca 180
 acataatgct gcggaatgct gtcataattg gtcctgatga tactccatgg gatggaggca 240
 cgttcaagtt gactctccag ttactgagg attatccaaa taaaccacca actgtgcat 300
 ttgtgtctcg catgtttcat ccaaataatt atgctgatgg aagtatttgc ttggatatac 360
 tacaaaatca gcggagtcc atatatgatg cggctgctat actcacatct atccagtcac 420
 tgctttgtga tccaaccca aattctcctg cgaactctga agcagctcga atgtttaacg 480
 agaacaagcg tgaatacaat cgaagagtga gggaaatcgt ggagc 525

<210> 6316
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079a08d1
 <400> 6316

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 taattctatt ttacattaac tgacatatgc aatgcaaaag ctacaataaa ttaaagataa 120
 gatgatgcta tcattcatat cagaagagaa tatatatttg atgagtttgc acaatcattc 180
 ttatatatag gtgccaccac tgcaacctaa ttcatgccct caaagcttcc tgcatataag 240
 gatgaactta gtcggctgtc caactctgct ccacgatttc cctcactctt cgattgtatt 300
 cacgcttggt ctcgctaaac attcgagctg cttcagagtt tgcaggagaa tttgggttgg 360
 gatcacaaag caatgactgg atagatgtga gtatagcagc cacatcatat ataggactcc 420
 actgattttg tagtatatcc aaacaaatac ttccatcagc ataaatattt ggatgaaaca 480
 tg 482

<210> 6317
 <211> 223
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079a09d1
 <400> 6317

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 atttttcaca gtggcagtgc caatgtgaaa catcctgcgt gaacaaacag aatgcataag 120
 ctgcacaact tgctaaatct aatggttgac gtgtatagaa cctaacaagt atacataaag 180
 aactagcttt ggataagatt catttagaca agataagacc att 223

<210> 6318
 <211> 611
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079a10a1

<400> 6318
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 gntgattctg gtcttgtcaa gttgggtggga attaggagct gcttaattca aagaatgggg 180
 ggagatgcac agaagagaaa cgtcatcatt ggcgtctcta ctttcttggt ggtggccatg 240
 gtggtagcag tcacagtcaa tgtcaacttc aataacaagg gatcaagcag tgattcaaag 300
 gaagaaagca aatcccatgt agcttcctcg atgaaggccg tgaaaaccct ttgtgcaccc 360
 accgattaca agaaggaatg cgaggacaat cttattgaac atgccagtaa catcaccgac 420
 ccacgggaac tcatcaaaat cgcattccac gtgaccatct ccaaaatcgg cgaaggactt 480
 gagaagacac aactcatgca tgaggctgag aatgacccta taaccaagga ggactcgcac 540
 acgtgcaagc aactcatgaa cctcttcatt cgngagtcca cgaggtcact cgacaagttc 600
 gccaaagtttg a 611

<210> 6319
 <211> 369
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079a10d1

<400> 6319

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gcacatgcgt tctctcctaa aaaataatga atcaacttca gttagtgtgg gagacctggc 180
cagagtagta aggaatccta gtgaccctaa tccagtcac tccatggaaa aacatggatg 240
gcaagaagtt tggtattcca tctgaatcaa gggctctaac tccttccac ttcacacgct 300
tggttttgtc tgaaccaggg ccacggttgt tgaactcagc gtagaaacaa gtatccattc 360
cactaaaac 369

<210> 6320
<211> 634
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmf102220079a11a1
<400> 6320

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atcgtcaagg agatcctggc gagcccgggc aaatggcgga ccaggtttcg aagcttgcg 180
aagaggccca gaatttccga caggaatgtc tggagctgaa atccaaaact gagaagctgg 240
cgggectcct ccgccaggcc gccaggaata gcaacgacct ctacgagcgt cccacgcgcc 300
gcatcatcga cgacaccgaa caagtccctg acaaggccct cgttctcgtc accaaatgtc 360
gcgccaacag cctcatcaag aagctcttca ccatcatccc cgccacagcc ttccgcaaga 420
cctccatgca gctcgagaat tccgtcgggt acgtccaatg gctcctccgc gtctctgcct 480
ccgccgacga gcgcgacgac gagtacctcg gcctacctcc catcgccgnc aacgagccca 540
tcctctgcct catctgggaa caggtegeca ttcttctctc cggcgctttc ctcgtctccc 600
tcgctcgcga caacgaccgt tacgggaaac tcat 634

<210> 6321
<211> 374
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220079a11d1
<400> 6321

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cgagcctaaa ttaatttgac aagggcgaca acccaagatt gctaattttg atggtatata 120
cagtagtgat gcagggcgaa agaataaaaag aaagaaaagg aagtggaagg ttacgttggtg 180
gaggtaggtg tgtaagtatg tatgtatgta aataaattca gcggaatcct ctctctcttg 240
attgatagag ttcgagcctg ctcttggcct ctggtaagag tggttggatg gaggggttcc 300
tcgatgagat gtgcctgctt ggtgcaccat tcgagaacaa tgagcacctc ttcttgcgcc 360
agagtctcgc tttt 374

<210> 6322
<211> 599
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079a12a1

<400> 6322

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tccaacctcc aacagcgcca tggtttctca tgactgctgc ggagcttctt ctctcgctgc 180
tctggttctt caaccaagcc ttccggtggc gaccggtgtc gcggagcgtc atgactgaga 240
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agaaggagcc caccgtggag gtcattgaca ccatcatctc cgccgtgtcc atggattacc 360
cctccgacaa gctttccgtc tatctctccg acgacggcgg gtgcgacgtg actctctatg 420
ggatccgaga ggctgctgag ttcgccaaagg agtgggttcc gttctgtaaa aagtatggcg 480
tgaagtcaag gtgtcccaaa gtcttcttct ctccctctgg ggatgaggat cacgagactc 540
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<210> 6323
<211> 412
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079a12d1

<400> 6323

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 ttaccatggc ctcaagaagt ggataactaa gaaccattac ataggtaact aggaaaagtt 180
 gaccaaacat ttcttcaaaa tctttcacat tgaaattaaa tagtctccat ataccaacta 240
 agaagctaac aatgttggct gtgagtaata gaaccaatgg agccatgaac acagctgcac 300
 cttggaaatc gaatctacct tgctcatatt tcttgagctt ctctttgtaa tggctttgtt 360
 tgacaagttg aatttcacct tgctcaaccc caaccacttc ttgattccat ct 412

<210> 6324
 <211> 582
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079b01a1
 <400> 6324

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 actccctttc ttcttccact gattctcgac gtgagagaat ccggtttctt taatgatttc 180
 gccctgtcgg ttggactcgc tatcggaccg gcaaatgatt cttgggattt gagtataccc 240
 caacatctct gctgcctctc gctgttcgtg atgaggttct ttgtgtggga tgcccaaata 300
 ccaaagatga aaggtgtcag agactgggtc ttctctcaaa tactatccaa atcgtctggtc 360
 tcgccttcac cattatctgg cagcaatagt ctctatgctg gagagcatcg gaatgaaaat 420
 taccacgagc aaggttcaga tcaactcagct aattcagtgt catcaccat accttccaac 480
 tcacgaact cttcatatgg tgatcagagt aatcagcata gttgctcctt gcagctagct 540
 tcagatacag aaatctatca gtatcaacat aacactaatg ga 582

<210> 6325
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079b01d1
 <400> 6325

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 actctctaaa ttatacattt taattttatac tatatataat taaatgttat agattttttgc 180
 aatgtgcaaa ataataataa aaaaaacgat ttcctcttat acaacgatta acaaacatac 240
 tatagaacgt gcaacatgtt ccttgctgaa aagataagtt tgggcagaaa atacaacctt 300
 ttctttcttca ccaaccgaca tgttgcccac agtcgtgtca cctgaaccaa aaaaaccatt 360
 gaaattccca tttgatgata ggcaccgcac aatataaatg caaagccaga gtttgaacat 420
 caatgcaagc cttaaaactta aacaagatga tttgtggcta cttgcattat cactaaca 478

<210> 6326
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b02a1
 <400> 6326

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 acaaagttcg gcaagacctt cgccacgcag gatgagcacg accaccggtt ccgtatcttc 180
 aagaacaact tgctccgcgc caagtcacac cagatattgg atccctccga cgtgcacggc 240
 gtcaccaggt tctccgatct cactccggcg gagtttcgcc gccagttgct cggcctgaag 300
 ccgctccgac ttaactctga cgctcagaag gctccgatcc taccgaccaa cgacctccct 360
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 ggatcgagtt ggaccttcaa cggcgggtgga accgctgcag gtgctgattg gacttatata 480
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<210> 6327
 <211> 399
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b02d1
 <400> 6327

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 ggtagaaaca tgttttagcag cgacagttga gaccatcgag tccaccccccac atacattggg 180
 accttttgag atcttggaat atcccttttt tccccagctt tccccccatg aattctttat 240
 gatccagtaa gggttttcct taaaacgaat tggagcataa gcaccagaac catacccccac 300
 caaaagaacc ccgtgatcca aatgcttgcc gcagatatat gggcatgaga cgccaccaat 360
 atatgtctgc ataaaaactg cattgatacc aactgcaag 399

<210> 6328
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b03a1
 <400> 6328

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 gctgggcctg cttctgagga tgttcaactcc ttatgctgtg ctcatcgctt gcgcacacct 120
 ttatggctcc tctgactaac tttgcagtct gctccactac acactccaca tcatagctcg 180
 tctgcattcc ctttcccttc tcttttcacc ccaccttcct gatcctctct tcttctttat 240
 tctttttctg ccggcagcac ctaattcggt ttogacttca taattctact acttcttcac 300
 tcataaaagc agattgaacg acactgaaca aaacggctct tactgcacga cgaggacctc. 360
 catcttttagc agaataacca cagcctcatt caccactggc tcaaattcca tatctgtcct 420
 actggcctac tagccctcct acatggcctg aggcataacc ttttgctttc cacattttat 480
 tgcgatgc 488

<210> 6329
 <211> 525
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079b03d1
 <400> 6329

caatattatt accataactt atcacatgta tgggacatta ttcggaata accatataat 60
 aaaatccaca tttgaaatgg gatttttagca agaaccgggt ccacagcttt taggggtgtt 120
 actatcatatc aaaacatata agaatgagat aagatataaa ctatagattg aacgagtatg 180
 aaacaagggt gtacaaaaag attaagctgc cattgtttca tctaagtaaa catcacttca 240
 tcaaatgcag cagatgatac aaattgcaac ttgacaaagc gacccttatg cacaaatgta 300
 aatgaaaata atgcagcgga cttacaggat atggcacttg aaggaaccaa aaagggaaaa 360
 agtaagaaaa cttttatagt taaaaataa gtcataaata aatccattct tttcttttct 420
 ttntttcttc ttaatttact actgtgcaa ggtcaccttg gaccagataa ctctactgca 480
 tgcagatttt cggttgagtc gacgatccaa tcagaattag gatga 525

<210> 6330
 <211> 459
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b04d1
 <400> 6330

aagggtgtat tatggacaag ttcaatattt tagcaaagag catagcacia gttcaaagac 60
 aacaagaagt tcaatttcat ccatttactc ccaaagaaaa tacctcactc gttttataaa 120
 gcaaatgttg aaccacaggag accacatccc cactccctcc cctctttctc tatcaaatg 180
 taaaactaaa acacaaataa aaaacttcaa tgattgaaga tttttattac aatcttttca 240
 aacttttctt tctggcatct atcttcttct tgtccgctg agcttttgtt tgtccacctt 300
 ccttcttctg gtggtgcaga agcagcagat atgactgtag cagcagaaga accattaaca 360
 gccgctgctt gttcctgatt atttctctt ggttggtgtg gttgcaagca ctggcactgg 420
 caatgcagca ctgccggtgt ggttttgatg tcaccacta 459

<210> 6331
 <211> 488
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b05a1
 <400> 6331

gctgagcaga cggaggagaa ctcgactgaa gctgcctctg cgacgccgtt tcgattcagc 60
 ctcagacatt tccgttgcag tcatggtgca agaaaatggc aagaggaaga aaccaaacad 120
 tctggtgact ggcacaccgg ggacaggaaa gacaactgcg tgcactgctc tagctgaagc 180
 caccagctc tgccacatca atgtcggaga attagtcaaa gaaaagaact tgcattgatg 240
 atgggatgat gagcttgatt gttaccttct taatgaagac ttggtttctg atgaacttga 300
 ggatgttatg gaagaggggg gaaacattgt ggactacat ggctgcgatt tctttcctga 360
 gcgttggttt gattgcgtgg ttgtacttca aactgataac accattttgt atgaccgttt 420
 gagtaggacg ggtacaaaag attcaaagct ttcgaacaat attgaatgag aaatcttcca 480
 agttctgc 488

<210> 6332
 <211> 494
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079b05d1
 <400> 6332

cccttaacta tttgaaactc attatcaciaa cttggtaaaa gttacctttc aattgtcaaa 60
 tttaaaaccc atcacataaa atgccacaaa tacatgccac accaaaaatt tgcaagagaa 120
 ttcaaccaca ctgcagatct gcttcaggta gcagttcatc gtgatacttt caccatactc 180
 aagcagaaag gtatatacaa agtactcatt tttttgttaa gaatgtgagg gtaaagacca 240
 atttctgacc caatctgtaa gagttgccac atttctacta acgtcttcta tattatcact 300
 cttcattgca atcactttct cctccgagta actttcttta gcctcctcaa gcagaacttg 360
 gaagatttca cattcaatat tgttcgaaag ctttgaatct ttgtaccccc tctactcaa 420
 acggtcatcc aaatggtgtt atcagtttga agtacaacca cgcaatcaaa ccaacgtca 480
 ggaaagaaat caca 494

<210> 6333
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079b06a1

<400> 6333

catgcttcca accttgactg aacttcgacg cgctttggac atgcaatcag cacttgaatc 60
 cctcgtagaa gaagggaatt actggaaggc atttcaagtc ctatctgagt attagcaact 120
 ctcggatcgt acgtcagagc tttcagcaat acaagaaatg agtcgaggcg taggaggtct 180
 ggctgggaag aactttacag aagctggatg ctctcttatt gggagtatgc caagaatctc 240
 aaggaagacg gctatataac agtaatagat gcatatgcat taatagggga tactgccggt 300
 cttgctgaaa agatacagat gcttcttcat gcaagacgtt atatcagaaa cacactctgt 360
 cttaaaggct attgagcatg aggatganga gggactttca caaaatatgg ggctcactta 420
 cagggattta tgcctacgaa tacctgattt aaagttcagg caatgcttat ttcgaacatt 480
 ggctggccta tttgacctta cgtgtgcatt ccatgaaatt at 522

<210> 6334

<211> 502

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079b06d1

<400> 6334

agcgatcagt aacctgaatt acgtgaggaa aaatattatg tgaaggtaaa attatagtac 60
 aataacagct tattttcaaa ggactatcta caagacacca acgcacacag atttggaana 120
 tactccataa ttaatagagg atcaaacgcc aagcaatata cactaccttt acacggagcc 180
 ctgccaaaaa agtcaaaggc gaaaaggagc agaagattct atatgcctga cttgatacac 240
 aacaaatgac agttactcat tcaatTTTTT ccagtatgtc caacctgggt ttcctcttcc 300
 aacctttcat agtggcaaca aggttgacca gtccaacaat ctggctttta ctgtattccg 360
 ggtgtgctcg tgcccagtg acatattctg tctcggaag gtagtaagcc ttgatgaaag 420
 tttcaacat ttgtagcttg ggcttcacat tcagcgccac aaaatgctgt aaccattga 480
 tcaaaacctg cagatcta at ga 502

<210> 6335

<211> 514

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079b07a1

<400> 6335

ctcgagccga ttcggctcga gattcaaact gcgagaccaa gaaaaatata aaacttgatc 60
gcaccacgaa gcctcaaaac tctctcccca tcccacatct ccatgcatat tagatcgatg 120
aaggtgaagt acctaacata aaagagcctt ggtaacagaa aaaacacatc atgagctcct 180
gaaccacctt catcgaccag gatcataagt ttaaaacatg gagatgcagc ggatgagggg 240
gttgctgtta ctgtggatcat catttgaaag cgagggaatg tcccttggtg gtggaaatca 300
cactgccgcc aggttttgca ctcgctaaaa caatattcca caaccccctt ttctctctct 360
tttctctcta attatctctt cttttgtatt cctctctctt tcttcttcta catatatata 420
acaactctct ttaaaatttc aacacttggg tcgtcatcat cgtcatcttc tttgcgtctc 480
tttctctttt gaatacccta cacttggtt tgag 514

<210> 6336

<211> 556

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079b07d1

<400> 6336

gcaaccagtt caatgaaaac aaaataaggg ggataaaata caacagatga atattcgtag 60
cttcaacatc tacgtgtcat agaataaaa tgatcacacc ataatctgaa ctttgaccat 120
aattcacccc tcattgaaca gtgaacacat tcctcaactg ttacaccatg gtggtcatta 180
ttttcacaat caacaaattt cataaacatc cacaaagcag tcacatgaaa aatatgatta 240
aactttttaa acacgccaca aaagaaaaga aaagaaatca aagggacaat agagaaaatt 300
aaaactcctt ggctttttgc tcctcagggg ccacctccac tcttgaatct ctctaact 360
cttcaccctc aactccatgt cttcttcac tacaccactc tctctgtgaa acacaaattc 420
ttaaaccacc ctcttacatg tttctaccaa aataatcaat caatcaatgc aaggttttta 480
aaaatgggtc accttcacga tttcgatcgc cacaccaag gtttttaggt caccacaatc 540
atatcaattg aaatcg 556

<210> 6337
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079b08a1

<400> 6337

caaaaatagt gtgccacaaa caaaaacaaa aacaatatga agttcactat aatcacaata 60
 tttttttctt tattttctagt cgactttgggt ttgcacaaac aaggggatct tgacatatca 120
 agatttggag gaaaaccgaa ttcagatata agccaggctt tcttaagtgc ctggactcaa 180
 gcatgtgcat caacatctgc tgtcaaaatt gtgattccag ctggcacata tcaaattgggt 240
 gcagttgatg taaaagggtcc ttgcaaggct cctattgagg ttcaagttga tggaacaatt 300
 caagcaccta caaacgtagt taaccttaag ggggcagacc aatggttaaa ggttcaacat 360
 gttaactctt tcacctgtc agggaaagga gtttttgatg gtcaagggtcc aactgcttgg 420
 aaacaaaatg attgtacaac aaacaagaac tgcaagatgc tntgcatgaa ttt 473

<210> 6338
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079b08d1

<400> 6338

aaataaagaa gacgtccttt gttattgaat agttgcgttg aagtatttat ttacaaggga 60
 atacaattac tagctagaca tctcctcttt taatggggat ggcttgctaa ctcaagaaag 120
 gaaaaaacca taagaacatt gttaaaaaaa tgggcattat tgtagttgct cattctaggc 180
 tgcacaagta ggagcttttc ctgttattac gggcttgacg ttagcacatt tagctgttgt 240
 tgcagctcca ttgaatgtgg agatcaacat cagtcacctc tacacccttc acatggtgca 300
 aactactac aaataaaaat cactccttct ttagttcctg aagtgcctt aatgggtttt 360
 gaaggaaacc ttgcttatct tgatttttga cggattcttt ttggagcact gngttccatg 420
 ggacatactc ttggtctatg atcacaggtt cgaaac 456

<210> 6339
 <211> 562
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079b10a1

<400> 6339

ctgcctcatg agtgtctcca tcngactaca tgatgcagca tanagtaaga ccatgtccga 60
 aggttttggt tataataaca ttgtgtggtt ttatattatt tgttagaatt tttttttcaa 120
 tttgttgat tttttttttt tattggggtc tcttttttct cggggtagcc cttgtctccg 180
 tcgtcttcgt cgatcctcta cctctccttc aaccaggacc aggctgctt cgccgacgtc 240
 gccgacaacg gcttccgcat ctacaactgc gaccccttcc gcgagctctt ccggcgcgag 300
 ttcgacggcg gcggtatcgg ccacgtggag atgctcttcc gctgcaacat cctcgccctc 360
 gtcggcgggc gtcctaacc ctagtaccgc cccaacacgg tcatgatctg ggacgaccac 420
 cagggccgct gcatcggcga gctctcatte cgcgccgccc tgcgcggtgt tcgcctccgc 480
 cgcgaccgca tcatcgtcgt cgctgaacag aagatcttgg tctacaactt cgcggaacctc 540
 aagctcgagc cgcatactga ga 562

<210> 6340
 <211> 458
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079b10d1

<400> 6340

agcaaagctc tcaatattta ttattaaaaa aattagaaaa ctatataatt acaaataatta 60
 caatggaaga agcaacgagg tcgaccctga gttagtaata ataataaaat gaggtcagtg 120
 ttacttcagt atacatatct gcataacctt actaagctga aatgtcaagc gctcaggatt 180
 tcttcacatc gcgtctcaca aggctgtttc tgggtctggc tttaaaaagt tatgatattc 240
 cagctgagtc atctcccctc catgtactgg atcaaattgg catctataga agctgcataa 300
 aacaaatcaa cagcaattca caacatcata taacacaagc gtccaccttt tgggatgcaa 360
 aaaggccctc taaacaacaa gtataccaaa aaaaatcaag tcatagatat atggtaagat 420

atttgtcaaa agagccatga aaccaatgca cacacatg

458

<210> 6341
<211> 595
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079b11a1

<400> 6341

tgatatcgcc caagagcatg cagcatanga gactggaggt cgcataaagn anaccaagtn 60
nnnggnttgn gnggggaggg cggggagggg gnnggngngg ggggggagg tttgggggtt 120
ggggtgtttt tatggattgg aggggggacc cattcacagg gggatacaga aacttcaatt 180
cccaaacttc ttctccact ggccaatcac tggacgccac ggggcaggca aagatccgtt 240
gggtgcaaaa gaattacatg atttacaatt attgcactga tatcagacgt ttccctcaag 300
gccttctccc agaatgctcc attgcatgag aatatttaat tcaatgttgc atatcattat 360
aaaatgatcc tcatgaacgt gacacacatg tgttgcctat tacgttaatt tactttcttg 420
tgtaaattaa tgcaactaaa actgttatta ttgttggttt gtgctttgtt gagcactact 480
ccattgtttg tggcgaaaga taattatagc gtgcaaaatt atattcatgg cagtgtatat 540
gtgctgaaat tgtaaagtat tttcattaat aaaattggtg gagttttatt attcg 595

<210> 6342
<211> 438
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079b11d1

<400> 6342

cgaataataa aactccaaca attttattaa tgaaaatact ttacaatttc agcacatata 60
cactgccatg aatataattt tgcacgctat aattatcttt cgccacaaac aatggagtag 120
tgctcaaaa agcacaaacc aacaataata acagtttttag ttgcattaat ttacacaaga 180
aagtaaatta acgtaatagg caacacatgt gtgtcacgtt catgaggatc attttataat 240
gatatgcaac attgaattaa atattctcat gcaatggagc attctggagg aaggccttga 300
gggaaacgtc tgatatcagt gcaataattg taaatcatgt aattcttttg cacccaacgg 360

atctttgcct gccccgtggc gtccagtgat tggccagtg aggaagaaag tttgggaatt 420
gaagtttctg tatgaggc 438

<210> 6343
<211> 582
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079b12a1

<400> 6343

caaaatgact caagcccaga ttcaaccagt taaacttga acccaaggct ttgaggtttg 60
aaaattggga ttcggatgta tgggccttac tggagcgtac aatgaccctc tccaagaaca 120
ggatggcata tctgttatca agtatgcgtt cagtaaggga atcacatttt ttgatactgc 180
ggatgtttat ggagccaatg ctaatgaact tttggctgga aaggctttga agcagctgcc 240
cagagaaaag attcagatag ccacaaaatt tgggtattgct tcacgagggt ttcttgatat 300
gaagatcaag ggttcgcctg aatatgtgcg atcatgctgt gaagctagct tgaagcgtct 360
tgatgttgaa tacattgatc tctattatca gcacagagtg gacacatctg tacctataga 420
ggaaacagtg ggtgaactta agaaattggg cgaagagggt aaagtcaa atattggatt 480
atctgaagcc agcccagata caataaggag agcacacgca attcatcca tcacagctgt 540
gcaaatagag tgggtctctgt ggactcgtga ctttgaagaa ga 582

<210> 6344
<211> 382
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079b12d1

<400> 6344

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt ttttttgttt 60
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttg ggccccccca 120
aaaaaaaaag agggccttaa aaaggggcaa aaaaaaagg ggggaaaaaa aaaaaaaaaa 180
cgggaaaaaa aaaaaaatta aacccccaaa aatttagggg gggccaaaaa aaaaaggggg 240
ccccattggg gatttaaaaa agcccccgga aaaaagcctt gggcaccctg ggacccccaa 300

aaaaaagaaa accggggggaa accccaaaaa aaagggggggg gggggggcccc aaggggggaaa 360
at ttggaac tggggggggg gg 382

<210> 6345
<211> 526
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c01a1

<400> 6345

atccctctaa tcaactctagc tggttgc aaat ttctactatt tttcaatggc ttctgcagat 60
gttgagttcc gttgctttgc tggtgggctt gcttgggtca ccggcaacga tgccctcgag 120
aaagcctttt caatctacgg cgacatcggt gaatcgaagg tccgtttgat gcaggcaccg 180
ctactgatct cacacgattc ggattcagat tttttctcga tcctcttctg atctgtgatc 240
tctgatctat ttgcgttact tgatctatga tatgatactt gcgttactat atgattcttt 300
tattactcac gccaataggt acgttcatct tcttcctttc accaaaggcg aagatcgatc 360
ggtttctatt cggctctgtc gttagttttc gtgttatgtc ttttgctttg gatctgatgc 420
atcgcgtttt tgtgtgcagg ttatcaacga ccgtgagact ggaaggcca gaggattcgg 480
at ttgtgacc ttcgtctcag agcagtcaat gaaagatgcg atcgca 526

<210> 6346
<211> 397
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c01d1

<400> 6346

tttgttcttt tttttttttt tttttttttt ttttttcttt tttttttttt cttggtattt 60
gtttttttat tttctttttt tctttttcat tttttttaa ggggccccaa aaaaactccc 120
ccccccacac caaccacccc caagaaaccc accaaaaacc caaggaccaa accaaaaccc 180
aaagaaaccc aaaaaaaacc ccccccccat ccccaaaaaa aaaccccccc ccacacaccc 240
caaaaaaaag gggaaccccc cacaaacccc gaaaatacgg ggacccctcc acaatgccca 300
gagatccac cggtcccccc cccacacccc ccaagaaaga agagaaaccc cccaaccccc 360

acgccccccc cgccgtatcc accgccccac tccccac

397

<210> 6347
 <211> 574
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079c02a1

 <400> 6347

cttccttctt atctctcact aatctaattg aatccgcagc actgtcgcgc ataggcctgg 60
 cgggcctggc ggtgatgggc caaacctag ccctaaacat cgcagaaaag gggttcccgga 120
 tctccgtgta caaccgcacg gcctccaaag tggaccagac cgtagatcgt gcccgcaacg 180
 agggctccct ccctctcacg ggccaatata cccctcgcga cttegtttct tccctccagc 240
 gccccagatc cgtcatcatc ctctgcaagg ccgggtcccc agtcgaccac accatcgccg 300
 ccctctgcga ccacctggac cccggcgact gcacatcga cggcgggaac gagggttacg 360
 agaacaccga gcgccgatg aacctcgtcg ccgacaaaagg cctactctac ctccggcatg 420
 gcgtctccgg cggcgaagac ggcgcacgcc acgggtccct cctcatgccc ggtgggtccc 480
 accatgccta ctgcaacgtg caggacatnc tccacaaaat cgacgnccag gtcgaggacg 540
 ggccctgcgt tacctacatc ggcgagggag gctc 574

<210> 6348
 <211> 361
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220079c02d1

 <400> 6348

ggaaacccaa agaaatgcct ttggttttata aaaaataaaa acaggtttag gaagaaaaaa 60
 aaagcgggta ttttccaacc aaaaaacctc aaagaaacaa aaaatttcaa actaaaagcc 120
 ggacctgaat gcacgacctt ttaacaaacc accaaaaccc aaaatcaaac aattgggggg 180
 cccaaattca ggcccaatat tggcagggga gttcaccccc tcgggttgaa aaaccccagg 240
 ggggacaaac cttttataag aaagggcccc aaaaaaggcc ctttgagcct ggaaaaaggt 300

ttcccgaag tttgcccccc gaaagggatt aaaaaaacca aaaaagggcc aaatttcggg 360
g 361

<210> 6349
<211> 310
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c03a1

<400> 6349

gtaacattac gctagatgga aagggcggat gaccatcctt gtatgtaact cgcggatggg 60
atgaaaagtg tcgaagtcaa agctttgctt gagcgccaaa atttgtaata taaggattta 120
tgtattcttg ataagctggg gttaaagaac atgtcaaaat ggagtaactg aagcaacccc 180
taaaagattc acttctcggtt ttccttttta aggaacattt gtgggttaca gcaaaatatg 240
tagataaacg tgtctgacat cattacattt ttcgaatttg attcgtgtat tctaattgtt 300
ccatcctttg 310

<210> 6350
<211> 310
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c03d1

<400> 6350

caaaggatgg aaactttaga atacacgaat caaattcgaa aaatgtaatg atgtcagaca 60
cgtttatcta catattttgc tgtaaccac aaatgttctt taaaaggaa aacgagaagt 120
gaatctttta ggggttgctt cagttactcc attttgacat gttctttaac cccagcttat 180
caagaatata taaatcctta tattacaaat tttggcgctc aagcaaagct ttgacttcga 240
cacttttcat cccatccgag agttacatac aaggatgggc atccgccctt tccatctagc 300
gtaatgttac 310

<210> 6351
<211> 545
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c04a1

<400> 6351

tgttgaacaa gggtttctct gtctgcttct tcactttctc tcgtttcaat cgaaacccaaa 60
 acaaaaacat ggggcagaaaa ttcttcgtcg gtggcaactg gaaatgcaat gggaccactg 120
 aggaggtaaa gaagattggt actactttga atgaggctaa agtccttgga gaagatgtcg 180
 cagaagtgtg tgtgagccct ccttttgtgt tccttcctgt tgcaaaaagt ttgctgcgcc 240
 ctgatttcca tgtttcggca caaaactggt gggttcgcaa aggtggcgct tataccggtg 300
 aggttagtgc tgaaatgctt gttaatttgg gaattccttg gggtattatt ggtcactctg 360
 aacggaggct gcttttaaat gaatcaaacg agtttgtggg agataaagct gcctatgcac 420
 tttacaagg tctaaaagtt attgcatgca ttggggagac tctcgacagc gtgaagctgg 480
 tacacaacgg ctggtgtttc tgagcaaaca taagcaattg cagctaaaat atcaaattgg 540
 gacaa 545

<210> 6352

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079c04d1

<400> 6352

aagtacagtc aactaggcgt tcaacattat ttaccaccca aatgttatgg tagttacact 60
 atttttgcat tcagaaattt aatcaaaatc caattgatcg cctatggatg agatctcaaa 120
 ggaaagcgtg tttattcagt actaaacaga gttcaaaaca ttggccacaa agcacagatc 180
 caaaactcaa aaacagcaat ttccgaagca gcttgaaagg cagcattata tcagttccta 240
 actacgaatt tcaattcttc ttcacagtgg cagcatttat gatgttcacg aactccggct 300
 tcagggaggc accaccaacc aaaaatccat caacatcggg ctgtgcggcc aattctttgc 360
 agtttcctcc atttacagaa ccttcataga taattcttac agatgcagca acttcggcac 420
 tcacattgtc atgaaccocat ttgctcaaata cagcatggac ctcttgagcc tga 473

<210> 6353

<211> 559

<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079c05a1

<400> 6353

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ggaggcgatt aggaagagta ggattcttat atttggagga actgggtaca tagggaagta   60
tatggtgaag gcaagcgtca cgttaggcca tccaactttt gtctacactc gccctcttga  120
tgcacaaact ccttcctcta aggcacagct ttgcaaggag ttcaactcta tgggggtcac  180
acttgtccat ggagaacttg agcatgacca gattctggca gtgattaaac aagtagacat  240
tgcgatatgt tctcttccat accctcaagt gatggagcaa ctcaaaatta tagatgctat  300
caaagttgct ggtaataataa agagattcct tccatcagat tttgggggtgg aagaagatag  360
agtaaaccct cttcctccgt tccaagcttt cctcgataag aaaagaaaaa ttagaaggga  420
aattgaagca gctgggatcc cttatacctt tgtctctgca aactgttttg gtgcttactn  480
tgtcaattat ntgcttcgtc cttacgaaat tactgtctat ggcaactgtg atacataagc  540
tgtgctaaac tatgaagaa                                         559

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<210> 6354
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079c05d1

<400> 6354

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atcccaaaca tttatgcctt ttcattgttat tcaacggtaa tcgggaggat cacctacttt   60
attacaattt ataaccaaca agtgcagggt aaaatgtctt cactcaaaaa gcagcagagg  120
caggggctgg aggatcaaca agaaatatat caagaagttc atcaatggat gtgtagttat  180
aatcaggata tagctgtgaa gcttcaagggt catcttctcc tatctcgaa ctcacgaggt  240
cccctctaac aaatacacta tgaaggatag aaacgggaat attgtgtgag ggggtaaggg  300
tctgtgataa ggttgacaat ctcttcctca gcaacaaaat ccttgcgaaa attttgacca  360
cttttttact ccacaaatgc tatcaactca ttttgtgata tgatattctt cgagggtcgg  420
tagataacaa cacgattgta tgttcttggg atcattcgct actttaatag tgtacatggc  480
gatattctct cat                                         493

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<210> 6355
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079c06a1

<400> 6355

atgagaacaa ctaatatgat atcaaatcac cctcatcttg agagagagag agagtgaagt 60
 ggatgatgga gagagtggac gagacagagg tggttggtgc gagtgtgctg cacggtggca 120
 tgatcattac tatggtcgtg gaggctcgag tgtatagggc cgggggcatc gctggtgaac 180
 atgatggatt catagcaatg cgtcaatgtg ctgatatcct tgcagtgcag tatgctgtct 240
 cctactggat tgatgatctg ctggggcata tgttactgac aggatttatt gtcacctagc 300
 gttcatagct ccagcanac ggccagaagc atagctgacc acgtggattc aatgtcctgg 360
 atgcttgagc gcatgttgct 380

<210> 6356
 <211> 521
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079c06d1

<400> 6356

gaagataaaa aaagataatt gaaaagctaa ataatttca aagatccaat ggccagatca 60
 tgattgcacc gtcatacgct tagcatcaaa cagttgacgc ctcttggaac caagttcaat 120
 ggatacaagc gcttatcata gacaatatac tgataaacia cagttaaatt atgttcattc 180
 tggttggtaa ttttatgcct gccctcttca gaagttcaac tgaagcctgt tttgccttca 240
 aaataacttc ttcctcgctc acatatataa tcttcttggt cttcattatc cataatccat 300
 tgcacatgac ggaaaccaca ttttctgac gcatacaata cactaagcta gaaatgcagt 360
 catgaacagg aaccatagac caagacgaag gatccactac aacaatgtca gcctttttcc 420
 caacctcaag agaacctagt tcatcatccc ataatactga ctttgcacca ttgacagtaa 480
 ccatcctaag aatagtttca gcaggcaatg caagtggatc t 521

0953113.032200

<210> 6357
<211> 482
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079c07a1

<400> 6357

ggttgggacc cgaatacgaa gtcgacgctg acacagatcc ctctgctggg gacgaaggct 60
gggtccacgag acggggcggc atggacgcag aggctgaagg aagagtcaag gctctgatag 120
cgtacactcc aatgatcatg tacaacgaca tcgattggct ccgcatattc tgccgcaatc 180
cggaaggcac tcgctggacc ggtaaatgct ggcacgtcta caacctgctc aagtactaat 240
tggaactaca attcgatgta cccgtcactt accgcttgac tgaccataa cttgaactac 300
gtgaatggga tggcataacc caaaagatgt atacgggtag aaagatctgc ttgactgtgc 360
acttcaaggc tctctgggcc aaaaattgcc ccagatttgg gagtgacat gcactttgcc 420
taggccttgc acacgggctt gcatcagagg ttgccatact agtggattct ggcatgatca 480
ag 482

<210> 6358
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079c07d1

<400> 6358

agatcaaaat cggtattagc catgttgcac gtatattaat ttgccagaat atgtcaatat 60
ctgcggatac acaaggaaga tcctgtaaac ttgtggtcag acagctcatt tatttccttt 120
gaccaatcag gcaacaaaat tctactttta cagtttcagt gagacatatg ataactaaga 180
ttcagttgat gtggttgagg tatcatcttt gtgcttgatc ataccagaat ccacaggat 240
gggaacctct gctgcaagcc acggtgcaag gcctaggcaa agtgcacgtg caattccaaa 300
tctggggcaa tttttggccc agagaggctt gaagtgcaca gtcaagcaag atctttccac 360
ccctatacat cttttggggg tttgccatcc aattgagggg agttcgagtt cggggccgtg 420
gaaggttaag tgacggggac atc 443

0022200 "ETTES" 0053113

<210> 6359
<211> 455
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c08a1

<400> 6359

agcagttctg ttcattggag cgccccctgcg tcgcgaacga atgaacgaag aacacagaac 60
gacgcatatc caagactgaa agtttctaga ttcgtcacct gcgagtaagt ttcttcaatc 120
catacttctt agttcttatt ctcaaatttc ttcctcaatc aaactcctta ccgtttgaaa 180
atccccctgtt ttattttctt ttaaaaatag ggtttaacag tgtctcataa ctttcattcc 240
ttaatttgaa cctgtttgag ctcaaatacc tctgattttg ctaacgccag attcaatatg 300
ccccacaaat tcatggcatt cttgtatatc gtattttaat ccatttcaga taatttgcgt 360
gcctctgggt tctttcggga cttatgaggt ggagacatat tttgtgataa ccctataccc 420
aatttggagc aatggtctga aaagggttgg gattg 455

<210> 6360
<211> 548
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220079c08d1

<400> 6360

gataatggaa aaactcaaaa ttcgattaaa atatacaaaa tacaaattgg cccaaaagta 60
aatagtctaa tcgctgttta gcaatttgaa tgatgcatga gacatatatg gttgcagaaa 120
catcctgaac agtaacccaaa cctaatacaa gaaagtaaag attggaagcc ttactagcct 180
tggttaccaa agctatcacg ggtatcatgc tgccacgccc cataactctg accatcatgc 240
ccaagctccc cagaatagta gttctgtttc ccatatgaca tgtgggatgg agtggaggtg 300
ngcggtgagg aggggcatgg gctgggtggtg ccaatatacc tttgccctcc cttggatcca 360
caaccatacc accctgtgct tgttcaaaaag gcacaccacc cattcctgaa ttccatggct 420
ggggattatt tcctggaaaa tttgggccat ttgggacacc ttgcgggaaa ccactaatg 480
aactctggtc ccacactata tcagaacctg agtctgcct aggcatatca tagggagcac 540

cgtaaaat

548

<210> 6361
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079c09a1
 <400> 6361

agcagctatt atactctcta gagtaattgc ggaatctgct agaatcttct aataatggcg 60
 aacgacgttg agcaggtcac agagcatggt gaatactccg cgaaggacta ccatgaccct 120
 cctacggcac cgctgatcga cccagatgag ctcaaaagt ggcccttgta cagagccgcc 180
 atagctgagt tcatagcaac actccttttt ctttacatca ccgcgttgac cattattggc 240
 tacaagagac agagtgcac caaaatcccc ggtgacaccg aatgtgacgg cgtaggcatt 300
 ttgggcatcg cttgggcctt cgggtggcatg atcttcatcc ttgcttactg cactgccgga 360
 atctctgggg gacacatcaa ccctgcggtg acattcgggt tgttccttgg acgcatgggtg 420
 tctttggtga cggcgttggt gtacatgata gctcagtgtg ccggtgcaat ctgc 474

<210> 6362
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079c09d1
 <400> 6362

gtccatatgt taattttttt aattggctaa agaccccccc cattgaaaga aaaaggcacc 60
 catggttgca aaaacattgg gaaaaaaaac caaaccaaaa ccaagggggt aaaaattgcc 120
 cccctaacta aaaacggtta ccaaagcaaa aacaggaacc acgcggatac ggcttatacc 180
 ccaaaccatc gggcaaaagc taaacccaaa agaaggggtc cttgcaataa gacatgaccg 240
 aaacacgtgg atgtggcggg gggaaacaca accaaatgag gagaaattaa gcctgggaaa 300
 aacttggatt cacatccata aaaaaaaggg cttgccaaaa gggacccaaa actttgatgg 360
 gaaaaccgc taaaaataat tgacgggaaa atgcggcccc cgggggtcac aaaaag 416

<210> 6363
 <211> 599
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079c10a1

<400> 6363

cgccctctgaa gcagattgac atagatgcag cattaggaaa accattcnga gttggggaga 60
 agtacgggga gggggaagaa aggtgttggt ttattttttt gataattact taaaagatc 120
 gatttgaggg gtggtgagat ggattgcgaa caagatcctt caccttcatt gatgagtgtg 180
 ttgaaggtgt actgagattg actaaatcag acttccggga gccagtgaat attggaagtg 240
 atgaaatggt cagtatgaat gagatggcag agattgttct tagctttgag gataagaata 300
 taccaatata ccatattcct ggcccagaag gtgttcgggt ccgtaattca gacaatacat 360
 taatcaaaga gaaacttggc tgggctccaa ctatgaagtt gaaggatggg ctgagaatta 420
 catactttag gatcaaagag cagcttgaga aagagaaggc agaaggtgtt gatttatcag 480
 gctatggatc atccaaagtg gttcagactc aagccccagt tcaacttggc tcgctacgtg 540
 ctgcagatgg caaagaatca agctgctagt gcaagggatg ttcggcagtt gcagcagat 599

<210> 6364
 <211> 496
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079c10d1

<400> 6364

cacctaagc agcagttatt attattacct caaacaaaac aagaacataa caccatccgt 60
 taaaatata tgaacaagtt ccaaaactaa cttcaatagc taatctgtaa ccatagatct 120
 ctacaaaata gcaacataaa agcctgcctt tcaacttgaa atgcattgtt cactcttatt 180
 ctttgccatc tgctgcaact gccgaacatc ccttgcaact gcagctttat tctttgccat 240
 ctgcagcagc tagcgagcca agttgaactg gggcttgagt ctgaaccact ttggatgatc 300
 catagcctga taaatcaaca ccttctgcct tctctttctc aagctgctct ttgatccaaa 360
 agtatgtaat tctcagccca tccttcaact tcatagttgg agcccagcca agtttctctt 420

tgattaatgt attgtctgaa ttacggcccc gaacaccttc tgggccagga atatggtata 480
 ttggtatatt cttatc 496

<210> 6365
 <211> 644
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079c11a1

<400> 6365

tgtncaagat gctggtanga catagaaacc acattaggaa aaccaaancn nanattaana 60
 aaaaanantcg agaacgagag aatnaacatt gacgacgatg tgctcgacga agcttttcaat 120
 ttctttctacc aggacgcac cacgaagctg aacatcgaag gcacccaaag gtcccaggat 180
 ctgaaaaagg gtgttgattg cgttcggctg aatgttcaat ctgttttga caaacaactt 240
 gctgcttggg agagttacat cctccgtcac tgttttgctc ttccccaagg ttttcgtatg 300
 ccaaacacca acttccagga tgaatcaaata gagaatgccc tagatccagg tgctcctttt 360
 gatccagata tagatgccc gttagattca ttgagagaaa aactaattga ggtggggaag 420
 gagtctgaaa tgcttaatca agaaatgcaa gcattagaaa gaaagtctgc tgtcaatgtg 480
 gctggacata tcaatgaagc tgtacaatta tatgagcaaa attctatgca tgaggtgttt 540
 cacgagattg tgacgaccga ctcagaactt ggagcaaaga tggcaaagct aaactctagc 600
 atgattgtag agacttgacc aacataaaact annaggattt acag 644

<210> 6366
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079c11d1

<400> 6366

aaccactgaa tatttttagt atacactata aatcacacac attcagtttc gtaattaaat 60
 ttggagggaa ttctaagatt catgaaattg cccacaattt tttcagctat aggggcaaat 120
 tccaacgaat tagcacaaga aaagactaga gtgtacaaca aggggtgaaa caggcaaagt 180
 ccagtccaac tagattggtg aaaaagacaa gttcacatac ttttcataac acttacaat 240

tcttcaacat cggctaactt catgtttgac aggccttttag caggatttat agcagataga 300
tccattttctg tgctggaaat ccttttagtt ttt 333

<210> 6367
<211> 610
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c12a1

<400> 6367

gtaactttttt gattcctaga ttctctaaaa ttcgaaattc taatttcgtt aggggaaaga 60
gattgtttgt gtgtgagtga gtatggctgg aaaaggcgag ggtcctgcta tcggaatcga 120
tttgggaaacg acgtactctt gcgtcggcgt gtggcaacac gatcgtgttg aaatcatagc 180
caacgatcag ggtaacagaa ctaccccatc ctacgtggct ttcaccgaca cagaacggtt 240
gatcggcgat gcggcgaaga accaggctgc tatgaacca accaacaccg tttttgatgc 300
taagcgtttg attggaaggc gtttttccga tgcattcagta caaggcgaca tgaaattgtg 360
gccgttcaag gtgattcctg gccctgctga gaaacctatg attgtggtga actacaaggg 420
ggaggagaaa cagtttttcg cggaagagat atcctccatg gttcttatga agatgaagga 480
gattgcggat gcgtatctag gttccaccat aaagaatgcg gctgtcactg tgccttgta 540
cttcaacgac tcacaacgtc tagccacca aggacgtgg tgtcaattct gggctcaacg 600
tgatgcgaat 610

<210> 6368
<211> 533
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079c12d1

<400> 6368

aaaaattaaa aacatatttt tatcttattt ttaaccatag aggtgcactc acccaaagca 60
ctattttgtt ctgtgttttt aaagtgatat agtatattct acttaaacac ggaacaaaa 120
agtcttacia aattctatag cttatgcata cattgtactt tcacagtaca ggtaacacag 180
gaatgggcat catttcatgt caccaccaa acttcacaat ttttcccaa ttcccatatc 240

accctgacac cctcaatddd gactacatga cagtgcagge atttgggttc tcatcgctga 300
 acatctgggg agggtaggaa tggaaatacg caggggtgtgc aggatatgca tacacctcca 360
 tgccatacct tgggtgggtta tagaagtatt cattaatctt aacctctgga acaaccttgt 420
 tgggtgtcttc agtagttgct ggtgtttgat gcttcctcta ctgtggcttc ttcttacttc 480
 ttctctgtgg tttcttctcc ttcacaccac tcttcttctc ttctcttttc ttc 533

<210> 6369
 <211> 455
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079d01a1

<400> 6369

ggcttgagcg gcgcaacggg ctgagcctat gcttgagcta tagagaggte tgacgggtgcg 60
 gctgatatgt cgagacctca ccatgggtatc gtgagctgca agtgtgccac tctcgggata 120
 cacaacttgc gatgccgtat gacccgagat gtgcgttacg ggtcccaact gctcgttaac 180
 ctgcacgcca ctgatggcgg ggcgcgagtg agaccggaga acggtctgcg cgaggaggat 240
 ccttgcgtaa tgcgtgggct gcagcttacc tggcgtcatc aacttacct gtgaatggat 300
 agagctcaag ggcgccacct ataccagcc gtgggtgtcc ggaccaagcc ctcatgtgtc 360
 agtcggcgcg acagtggctg taataacctg ggcgcgtgcc ctgacgggtgc cgtacgctgt 420
 gctgatcttg gcggcatgtc gtatatattg aaatg 455

<210> 6370
 <211> 336
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079d01d1

<400> 6370

gaatataatt taatttaatt ttaaatacaa tgatatataa tattagatat tatatgatga 60
 tacaatataa atacgtgcgg agctcttgac cacggaggac attacggctg gctgagcctg 120
 actacgctg ctctgcgtat gcagacagaa gcgattactg ttcacgagag gccacggcga 180
 ctgcatatga actgctaact gaaccgaaag tcgcatacac attggctcgtg aagtggagcc 240

002250"ETT560

cagaggacat tgcggtgtac acacgcatgg cgcttgacaga cgggacacct cacttcctct 300
agaccgacta acccaagtgc aagtgccagc tacatg 336

<210> 6371
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079d02a1

<400> 6371

agagaacaaa gcacttagtg ctattcaata attacgaaaa accaacagcg agtggtgttt 60
ttgttttggtc caggetggac cagggaatga atagagatga gaggetttcg gttgaagaga 120
actgagttaa gcggcgaatc cattcgcaga atcggcggca gaaattgcca ccggtagcac 180
gtctaagacg ggtgaaccaa acacaatatt gcatccacca cttctctttt caatccccaa 240
ctcaaactcg tgaagaaaat ctcaatttct aaattgcaat tcttagcact actgctagta 300
gtagtaaaaa aaaacaatta gaaagtagta gagcgctggg ttttcttttt ttcggttggt 360
ttactttgaa gatgggtgag aagagcaacg ttggcggcga cgcgattaac acgacactgc 420
ttcacgggaa gtacgagctg ggccggctgt tatgccacgg aaccttcgcg aaggtgtacc 480
acgcgcg 487

<210> 6372
<211> 486
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079d02d1

<400> 6372

gttactgacc catgagccac accaatgaat tggcaaacat attgacaatc acgccgacat 60
agcaacaaca tcaccacga gcacaacaac acgcagcaca tgtacctgaa tcatcatcga 120
gaacaactcc tcgatggcca tttcggtgca ttactgcatt cgccttttca acaattcccc 180
tttctgggta aaagacgaca cccccaaaag ggcaaaacat agcatagaag caagcaaata 240
actaaaatat ttcagtcctg aaacaagaat taacaaaaac aactacaaag gaacgacaat 300

tggcatggga gtcttggttg tgcttcaagc gagtgttagga ttctctgcag gagaagtcct 360
 ccacacgata tctttaagag ctggacgaag ctctcttgcta caaaactggt tatacctcaa 420
 ggtgtcaccg ctggccttct taacctncac cgccaaaaac gacgggcgta cggcggacaa 480
 gttcgc 486

<210> 6373
 <211> 522
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d03a1

<400> 6373

ggtgtgacat cctctcctga gctgaaagaa gaactaatct cacttgcaat ttaggccagg 60
 atcacatcat gcaggaagct tgttatgctt agtgttgcac agtagtttat ttaggtcct 120
 taacaggtct tcatcatcca ggcacttggg tcttttttac cggagtgtgc agtcatttaa 180
 ctctcatttt tgcaggttcc ttcaacagga aatctgttct ttttggcatc cattgccacc 240
 ttttaaattgg ctgcatatct gagaacatag ctaccgggtt ctggagttag gaatctttgt 300
 tactggtggt ggcacctgat gtttttagct cggctttgca tcggttttgc caccatgtgt 360
 gtcttagttt tctaagtttt tacagctacc tgtaccactg tatcagtctt tgtttaccaa 420
 atgtgtcatg tggttgaact atgttcttca catgatgtct gggatcagc tttactcgaa 480
 gggcaggtta gaagtttcag tgtcatgtgc ttgtattagg gt 522

<210> 6374
 <211> 535
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d03d1

<400> 6374

ggaatgagac tgaaaatttt atttatttca ttacatttca taacatacag aacaaagggc 60
 aggtatgaac atcattagac aatataggag gagcagttgc caagttcaaa aaaatgaagc 120
 cttaaaaaac taggacttgg taaaaataac aacccttccc aaagggacaa aaaggttgtg 180
 gttatggcag acctatatag cttgctgcc aagccaagcc cctaaaaaca agacttcata 240

gtctcatcta gtacagtaat taaatattaa aagaatttca gttgaattct cttcggcacg 180
 ttttaagaac acgctacagt ggctgagaaa cctggtgaaa caacaattct gggggcagaa 240
 aaaagtccac ctttgtccaa aactgatata aggagatcat gccattatga cctcaactct 300
 tgggttttctt tccataatgc ttgagactat tcttgaataa agggatgatct tgcatttagg 360
 gagtgtcata attcagaata ttacaacaaa aagacacaac ctttacttaa ttacttcctg 420
 atattgagga gctcaaagtt ccgcagagga tcatcacggg c 461

<210> 6377
 <211> 558
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d05a1

<400> 6377

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 aagggtctcg tcagcggatt gcaaattggg atgtacctga aaccatagag ggaaaaaagg 120
 tcataaccct cgacatgggt ctgctcggtg ctggaactaa atacctgggt gagtttgagg 180
 agaggttgaa gaaactgatg gaagagatca aacacagtga cgagataata cttttcatcg 240
 atgaagtgca cactttgatt ggagcaggag cagcagaagg ggcaattgat gctgctaaca 300
 tactaaagcc agtcttgca agaggtgaac tacagtgtat tggagccaca acattagacg 360
 agtacaggaa gcacattgaa aaagatcctg ctttggagag acgattccag ccagttaaag 420
 tgccagagcc aactgtagat gaaaccatac aaatactgaa aggacttata gagcgggtatg 480
 aaattcacca caagctccgc tatactgatg atgctctcgt agctgctgca cagctggtct 540
 accagtatat cagtgatc 558

<210> 6378
 <211> 400
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d05d1

<400> 6378

ccattaaaaa ctttaggtcc attgacaagt aaaacatact atgactatgg tttaaacaaa 60

ttaagtccat agtattagca aattaaccgc attatccagg aagcgttttt ggcaaggatt 120
 cgggggctcc gctggtacca ttgagcacia tccattacc atcagaatca acatccacta 180
 taacaaagtc gccctccttg atcttttttg caagcatttt ctaagccatg ctgtcctcca 240
 aaagtcgcat tatggctttt cttaaaggtc tagctccata actaggggta taaccttctt 300
 ccaccacttt ggccctgaat ctttctggca cttgaagtcc aatatctttc accttcagtc 360
 tatcaaacac ctttttgagc attatgtaag caatttcctt 400

<210> 6379
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079d06a1
 <400> 6379

cgccgaacaa ggcattgtcg tcgatgatga aaatgaaatt ggcgaaaaca ttactgcttc 60
 tcctttgtgt gaaactcttc tggtatgcag cgattgggtgc tctcaaact tgtcctgcta 120
 acaatgagga taaatgcggc gattcagatg aatggaaagg ggagtttttc cctgacattc 180
 ccaaaattaa atatgagggt cagtcaagta agaatgcgct ttcatttaaa tggataaatg 240
 cagaggagga aattcttggg aagaagatga aggattgggt aagacttagt gttgcatttt 300
 ggcatacatt ccgtggaaca ggcgctgacc catttgggtgc acctaccaa tactggctat 360
 gggaagatgg taccaattca ttaaacaagg ctaaaagacg aatgagagct aactctgagt 420
 tcataagcaa actcgggtgc gacttttggg gtttccacga caggatata gcccttgggtg 480
 gaaaaactct tgaggaatct aatgccaaact tggatgaagt ggttgcc 527

<210> 6380
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079d06d1
 <400> 6380

aattaactca agcatgctca aagccaggga agctatgcat cacgtagttt tatacataag 60
 ctaacatgca cttcaccagg cttcgtatcc acctagcaga taacagcttc acatttatat 120

tttcccaagg aaaacgaagc aggcataagt caatcttaat ttccttttat tagtaaacct 180
aattataccg aattgttcct aatataatag acgaaaaata gccaccacac acggctagat 240
tctactttct acagaacaga ttggaggatc atctcggcta gtcctgttt cgcagaagca 300
acctttgggtt ctccccattc cttgaccttc ttctaagcag ttcaaagtca gccttaccag 360
cctatatattg agccccaatt tcagtgtcaa aactctgata acgcttacga acaagctcag 420
caagagaacc atgctcaatc aacttg 446

<210> 6381
<211> 409
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079d07a1

<400> 6381
ttttgacgtg tacctaaaaa agccccgctt tcttctgtca gggttccatc tgtctgtcta 60
ttaagaagaa cacgaaatcc caatcttaat cgtaagcaat tgctctctct gagagaagct 120
ctcgaattcc ttctgagcct agtagaaatc caatggctat ttcattgatac gattgaaaac 180
cagtgacgtc actgggtgca cgctcccttc taattccgtg acctttcgat actgtgatcg 240
ccctacgcac gctcgatact cgatgatctc tgcttatgat aaagcctgag ctctctggag 300
tacttgaaca ccgttgtagc ccagctatcg tatcagacca caacagggcc acgggaaaga 360
ccaattctca acgctcattg ctgtgacgat cgatggcgat gacgatagc 409

<210> 6382
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079d07d1

<400> 6382
caatagtatc tatttgccat tcatattata acattataaa tcccatgtca tggaaatcta 60
ctgtgtaatt gataaaagta acaagaccaa agagtataaa caccgataaa atatatgaat 120
ttgtacatca aatgaaagat cgaatctcta attgagacat aattattgtt gttcccagtc 180
aaattcatgc ctccctgtca accataccga cagcgtagtg gccgaagttt ctgccctcag 240

ataatatccg ctgcttatta agtgattgcy tcctagcctt gttcaaaacc gaatttggag 300
 acttaaacat tctcttttca ccaccagaca ttctgtgttc gttggtatta agatactttc 360
 tcttcggtga gaaaccaaag acttcatgta agaactcatt ttctgcata tgcttaatga 420
 atcctcccc aagaaaatgc ttgataaaat tcaactgtat catttcagac catgatgatg 480
 cctgcaggga atcaccacca atcttcattg aaatat 516

<210> 6383
 <211> 425
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d08d1

<400> 6383

atatgcattg tttaaaaaga cacattgttt acatgtgaat tggatttata aatataatta 60
 ctaatttttg caaaaaacga aagcatgggt ttactagtag atctgatacc ttaaattttc 120
 aacaaaacta gtaaaaaatc actccatagg gggattgccc caggaaagca ccaatgaaca 180
 caatcattat atagtgtcat gttcaaaatt ggccaaaacc catataaaaa ggggtgacca 240
 tctggtctca acaacattag ctgcgctcgt gtctagaaac aagaacttca atccttaagg 300
 aaagccttct ttctttgcaa ttttgaactc ctccaattga atcatgagca attgtaaatt 360
 agggccttct aaatttgggg cgttattcct aaatggctta caaaaacgca atttccacct 420
 ttatt 425

<210> 6384
 <211> 560
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d09a1

<400> 6384

gtcctctct tgtacgctaa cccatcacca cgtttgggtt tgcgtaccac attccataac 60
 ataaccttgt tgtcctgaaa ttccagtcgt tggatttgta ctagaagggtg aacatgtctg 120
 gggttagaaa aacacctgca ccgactgaat cagattagaa gacagccctt actgcagaca 180
 aacgatctgc ttcagaacct gtccctgccag ttccaaaatc taaaggaaac tatttcgact 240

acgatgacga cgattggggg aggaagcctt cctcattcac agcatcaaag gacaaagaca 300
 ggactagaaa tggtttcagc aactctgggg ggctagagaa ccaactgtgct caagagctgg 360
 aaaactatgc agcgtacaag tctgaggaga catcacagag tgtcaacaat cgtttgagga 420
 ttgctgatga cctcaatggg gatgccacat ggacccttga catgttgac cagcatggtg 480
 agcagataac caggactcac atatggtgtg tgatactgag aaagacttga gccgggtgtg 540
 aaaactacta aacaatcttg 560

<210> 6385
 <211> 355
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d09d1

<400> 6385
 acatatgatt gggatatctat taatttccaa ggaaaaaaac ttttcacact tgccaaagac 60
 tcatcaaatg acagatggag gggccaatgg aggaacaaac cctagcagta ccacacacat 120
 aagaaaaaaa tatacatggg ccacctcatg agcccatcg cttgagcccc acgttcccca 180
 ttcgaacagg cctggcccc atgtagggcc acccagagtg acaaaaatac tatcatccga 240
 cttttggact cccaagccaa accacttata cgcttatggc aattaagaac ccaggctaag 300
 ggaccgtccc tatagatgac ccgcggtgag cgatgcaaag tcccagagct tcccg 355

<210> 6386
 <211> 304
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d10d1

<400> 6386
 ggggaaaaaa aaaaattggg aatttaaagg accacaccgg acaaaaaaaa aaaaaaaagg 60
 ggggaaaaaa aaaaaaaaaa aaccaatgca aaaaaaaaaa aaacaaaaaa aaccccccca 120
 taaaggataa aaaccctaag gcccaaaaaa acccttaaaa aggccccaaa aaacaaaaac 180
 ccccgagggg gaaaaaaa aggggcaaaa aaggaaagcg gggcacccta aaaaaaatgc 240
 aacaaccccg ccgggggacgg ccacaaaaga atagaaaaat atgccaacc cggtattgga 300

aatg

304

<210> 6387
<211> 358
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079d11d1

<400> 6387

aaaaccaatt ttaaaaacga tgaaactttt caaattcagc actgattcaa tgttttgaac 60
accattttgt tcgcatttac tttcccatgc ccattaaaag ggcttgaatt taaccaaact 120
ttaaccctaaa attaatactt ttaaccacg cattaactat cacaccgagg ttaattatt 180
taaaccgggg ggggttttta aacttttagga gaagaacctt ttggcatgaa atggaacatc 240
caaaaagaaa attcttgctt cgaaactttt aggacgacgg ctttaaggggc taaatttggg 300
aaaatttcaa taccaggaaa tcctgtccaa aatttttcca aagacaaggg aatccggc 358

<210> 6388
<211> 571
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220079d12a1

<400> 6388

gatttggcaa gctgcgatcg acatagatgc cgtaagaac ccatcgtaag ctcgagctcc 60
gctcgtggcc tctatatcgg ctgctgcaag tccatcacgc tctgctctct caggctcatca 120
gggaaaggcc atgaacctac cttgggtgtc cgtgtcagga actagttaca ttgcatcatg 180
cccttcccc agcagcatct ggtggcactt ctgatttcag agacgcccg tagtcaagaa 240
catggaagta gaagctgtat tctcgctttt gacgatatcg gtgttgcaaa tctgctatca 300
ttctcaattt ctaaactctg gtttgatgta cataatttta tcaatgagaa atgctacgat 360
gacctctacc actgtactaa gaattctatc tataccatat cacttgtttg agacttccac 420
ttgaggtgaa acaagctcga aggactgact agcatgagct atagtgccga attctttgcc 480
gcgctgatgt ctgtagcacg atttccaatt tcaatacacg gatgccttaa gatcattgca 540
acatgaatgc acctgttaag tgtatatact t 571

<210> 6389
 <211> 361
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079d12d1

<400> 6389

gctaaaaaca atttctgaat taaaaagttt ataaaattaa aaggtacatt catgtttcaa 60
 tgttttttaa ggatacccggt attgtaattg gaaatcctgc tatagaaaac agcctgacaa 120
 agaatttggc actatagctc atgctaggca atccttcaag cttttctcac cttaagtggg 180
 ataaacctca aaatgcttgg acttagatag aatccttagt acacaggtag aggtcttctt 240
 agcattttctc attgatcaaa ttatgtgcat tagaccacag tgtaaaaatt gacaatgata 300
 accgcttcat aacccccgat attgtaaaag ggcaaataaa gcttctactt ccatggactt 360
 g 361

<210> 6390
 <211> 561
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e01a1

<400> 6390

gacaagaaaa gaaaaaaagg gagagaagca gaaagagaga gagagagaac tgaaaaaaga 60
 aaagaaaaga taagactaat taacgttttt ttggtttggg tttcttcaac acgcaggaga 120
 cacgaagtaa agagacaagt tacatcagat ggttaaaaact tgtaaaaaga gttcgtgtat 180
 gtgtgtgaaa gtagtttaag gttgtggggg tggtcgaaga agtttttttag cttttagat 240
 agagatgtca ggtggtggag gcagcatagc gtggttcaaa agagatctga ggatagaaga 300
 caattcagca ctgacagcat gagtgagagc tgggtgctgcg gttgcagttt tcgtatgggc 360
 acctgaagaa gaaggtcaat actaccctgg caaggtctct agatggtggc tcatgaacag 420
 tttggctgat cttcattcct atctgaggaa tcttggcact cctgtcatca ctgagcgatc 480
 cactgacact ctctgttctc ttcttgaggc tgtaagtcc actggagcca ctcaactttt 540
 tttaatcatt tgcgatgcc c 561

<210> 6391
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079e01d1

<400> 6391

gaatataaat aaaattatat aaatatactt tgataaaaaat aaatagtatt ttttagatgt 60
 aacatttttaa atctgagttt attagtagac caaagatcct atgggtggctc tttctccctc 120
 actacacaaa ctatactata cagcaagttg caaatattgt acaagaaagc agaagggact 180
 gcagatgaac tgccgtatga attgaaattt ccatacacat tggaggtcag gtgggtggtaa 240
 aggagaagga aattaacaca tgtatgttca atgcggcttc aacacctcac tttctctcaa 300
 cagaaaagtg gtagtgtaat ttccacctcc ttgcttctag tctaattgct ttagatatga 360
 attaccagct ctgaggtagc tgcctccaat tcagcatttg gtgagactga ggatgccttt 420
 gcaagaaaga tgaactgttt gttataccat tttcctctcc taaaaattgg tctgagtaac 480
 tagaagctgg nggagaccat actggaacta ca 512

<210> 6392
 <211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e02a1

<400> 6392

ttcttccaaa taaaaaaaaa aaaaagaaaa aggaaggaga taggaaaggg ttaattgaat 60
 ccaaaaaaaaa gaagagaaaa acaaaatggg cagggtttgg acttcgatga tagcattgtt 120
 gctttgcctg atgacatcat cggttcgggg cgaggaccct tacatttact acacatggaa 180
 cgtgacctac ggcaccattg cccattggg tgtcccccac cagggtatcc tcatcaatgg 240
 tcagtttgcc ggccccgaaa tcaactccac cagcaacaac aacgtgggtca tcaatgtctt 300
 caacaacctg gatgagcctc tcttggtcac atggcatggg gtccaacaga ggaagaactc 360
 ttggcaagat ggcacattgg gtgcccagtg ccctatcgac ccagctccaa ctacacctac 420
 cgttttcagg gtaaggatca cattggaact tacttctact acccgaccac cggcttgcaa 480

ctcgca

486

<210> 6393
 <211> 525
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079e02d1

 <400> 6393

aggaaaagga aggagacttt catatatata tttatgtgat attgatatag aaaatgaata 60
 ggaaaggggt gtacatcagt gaccacgcaa gaaacatgag aaatgaacta gagctaatta 120
 attaaccctt cgtctcaatc tcatgatgga acaatttttg agctacgacg tgggtggcact 180
 gatgatgatc gcagaagaaa aatctcttaa ctggagtaag gtggtggctt aggcataatcc 240
 ttgacgattc cgcagacaag ctgggtctct gggaggttgt actcatcctt aagggacctg 300
 ttgggagaca agacactcac gtacaattgc tgtcccaggt aacgattctc tgccatctnc 360
 gacctcaagt tccacatttc agcgttgtca aaagtcaaca tgattgcggc ccaagacttt 420
 gggaacacct ggatgggtgtg cctgctgaca gcatcaagaa tgtttagtag cttcctcttc 480
 tctgggctcc actgccccgg ctcaaccgag acggcaaaga aagag 525

<210> 6394
 <211> 321
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220079e03d1

 <400> 6394

caaatcctac ttagaatcac cagcttcagt ggttcacat acgcatgcat gctcagtaga 60
 gcgatatgtg cacaaaagtt actcatgcca tacttacaca gagacggcta tgatcattgc 120
 ctgaacgtcc accaagaatt tgagattagc atgatcatta aaactggccc tttaactgta 180
 tggatcgcg agaatacata ctgcttaagg gattccttaa tagtcaacag tactggaaat 240
 tccttcttta atttgggact gtttaagctca ttgttgcttc tttgaggaa actcaccttg 300
 gcctggctct agagagtgaa t 321

<210> 6395
 <211> 558
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e04a1

<400> 6395

tggcaatggc atctccgtcc gtaacctctg taactgtgga gaacgtgaca ttccctgccca 60
 ccgtgaagcc tccttgctcc cccaacacct tcttctctgt cggcgccggc gtcagggggcc 120
 tacaaactca tcacgctttc ggcaaattca ctgccatctg catttacctc caatacgacg 180
 ccctttactt gctctccgtt aagtggaaaa ccaagtctgc tcaccagata acggaatccg 240
 accaattctt ctcagatatc gttaccgggtg cattcgagaa atttatgcag gtgacaatga 300
 tcaaaccctt gacggggcag caatactcag agaaagtggc agaaaattgc gtggccatct 360
 ggaggtctct cgggatttat acagattcag aagccgaagc tatagacaag cttctttctg 420
 atttcaaaga cctaacattc ccaccaggct cctctatcct ttacactgtc tcaccaatg 480
 gatcattaac gataagtctc tctagtgatg aaaccattcc agaagctacg agtgctgctc 540
 tagaagataa actactct 558

<210> 6396
 <211> 440
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e04d1

<400> 6396

aagttatgta attagttgct tcaattccca acgaaggatc aaatacaaca gttcagtact 60
 tagacatgga cagtgagaac aacacaataa tgatactaga agtttagcac ttagaaaaac 120
 tgtaatttgc cctttattga ttagtagcac agtgctgaaa gtcacagcag agtggttagg 180
 gattttgatc ttgggttgat gatataatga gttcacttat gagattgagg gtcacaaacc 240
 ccaggctata tgaataagtg agataatctg gagggccaaac tctgttgtgc tgcaggggaa 300
 acgccattct gacctatcat tgactgcgac acagactctg agaggagggt atgctctata 360
 acagctctgg tcacttctgg aatggcatca tgactagaga aacttatcgt taatgatcca 420

ttgggtgaga cagtgaaaag

440

<210> 6397
 <211> 496
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079e05a1
 <400> 6397

atTTTTcttc ctcagtagtg tcatttacgc ttctcttctc tgcagcaact atgcctaacc 60
 ctaagggtctt cttcgacatg accatcggcg gtcaatctgc tggccgcacg gtgatggagc 120
 tctacgccga cgtcactccc cgcaccgacg agaactttcg cgcgctttgc accggcgaga 180
 agggcgtagt gcgagcggc aagccccctcc actacaaggg ctctgccttc caccgcgtga 240
 tcccgagttt catgtgtcag ggtggcgact tcaccgccgg aaacggatcc ggcggcgagt 300
 cgatatatgg cgccaagttc accgacgaga acttcgtgaa gaagcacacc ggtcccggca 360
 tcctctccat ggcgaaacgcc ggtcccgga ccaacggatc tcagttcttc atttgcacgg 420
 agaagacaga gtggctcgac ggaaagcatg tcgtgttcgg acaggtcacg gaaggattga 480
 acgttgacaa tgacat 496

<210> 6398
 <211> 345
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079e05d1
 <400> 6398

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 cttctcataa cagactccat tcactcactc tatgaacccc aaccaaccaa ccacatgata 120
 ctgatattga aaaggaaagg ggaagggttt cgaaatgata tccttaacac cacaatcccc 180
 taaacgacga cagagaaaag aaaagaagag aaaaaaaagg caaaaacgac accgaaagaa 240
 ataacacaga ttcagagatt aaagccgcgg gtcaacgtcg tctaagagag ttgaccgcag 300
 ttggcgatga caacgggctt ggaggtcctg cccgagctgg atccg 345

<210> 6399

<211> 510
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079e06a1

<400> 6399

tggaaaactt ctcctcatgc ttggcāaaat ccagttcaaa ctccacaaac tcattgatca 60
 ttatcgttct catatattcc agacaattac cattccctca gagtctctct tgaatgaact 120
 tcgaattgtc gaggagatga agcggcaatg cgacgagaaa agagacttgt atgactatat 180
 ggtaacaaga tatagagaag gaggcaggtc taaaggcggc aaaggggaga ctttttcatt 240
 gcagcagctg caaactgctc atgatgaata tgacgaagag gctacattgt ttgccttccg 300
 attgaaatct ctgaagcaag gacaatcgcg tagtcttcta acacaggcag cagccacca 360
 tgctgctcag ttatgtttct tcaagaaagc agtcaagtcc cttgagacag tagaaccaca 420
 tgttaaataca gtaactgaac agcaacacat tgattaccac ttcagtggc ctgaagagga 480
 tgatggcgat gaaggtgatt atggagatga 510

<210> 6400
 <211> 500
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079e06d1

<400> 6400

gcaaattata tatgaaattt caacactttc tacactgtct aaatttcaca attaaaaaaa 60
 taaactgatc aaataaatcc aggaaaacaa aataatagaa aataagaaaa tagtaaacaa 120
 aacagtcttg gttgaaaaat tacctctggg ctaaacaatcc aagaaaacag catcagccat 180
 ctaatgatgg ccgactacta gataatgata ttggcatcag aggaggagaa gcaatattct 240
 cagatataga tgatctatga gaggattcta gtgttcttgg catatgtaat gctgccactc 300
 ttgcgccact agaaggtatg gagaaactac gagccatggc ctgaggtggc attggcagtg 360
 gagatgctgc acttgatgca accaaattat ttgcagtcac cttttgacct ctagacacca 420
 atggaccaga atgacccac taacctaaaa gccttgaatt ggangggaaa ctgggttgag 480
 gcctaggagt tcatgaagct 500

[illegible]

<400> 6401

<210>	6402
<211>	382
<212>	DNA
<213>	Glycine max

<400> 6402

2838

<210> 6403
 <211> 524
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079e08d1

<400> 6403

ccaaaatata atttttatct ctcatatgca ttggtaaaaa agacacaatg ttcacatgtg 60
 aatggcattt ataaatataa ttactaattt ttcagtaaat gaaagcatct ttttactagt 120
 agatctcata ccttccattt tcaacatttc tagtaaaaaa tcactccata tgtctattgc 180
 ccctggtaag caccaatgaa cacaatcatt atatagtgtc atgttctcat ttggccaata 240
 cccatatcta ttggggtgac catctgggtc caataacata gcttgcgctg tgtctagtaa 300
 catgaacttc aatcctttct ttatgccttc tttctttgca attttgaact cctccaattg 360
 aagtcatgtg taattctaaa ttatggcctt ctaactttgn ttcgttattc ctaaattggc 420
 tagttctcac gcaatttcca cctttattcc ataaccatt tncaagttag atggtgaaaa 480
 tgttctaaga aatgttatac ccttaaaatt ctctaactga tgat 524

<210> 6404
 <211> 563
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e09a1

<400> 6404

gcttcttcta catcacatcc atccttttgg tccctcctga acctgtctgc atccattccc 60
 atttcttctt ccgtatgcat gttcccaccg tctaaaaaac ctagcaaagc aacaaaacgg 120
 cgtcatgctt gggaagtagc atgcaatggt aaccctagaa ataggaggga cattctgac 180
 ggccttgagg gactctatgg tgctacaaca agtctcacia gtcacaacac tggttctgca 240
 tttggtgctt cattgtcgcc ttcagatcca actaactgcy ttcaaccgga cccagaaaaa 300
 gacccttttt gccaccacc ccccttcaaa gactacgagc tccctccaca cgatgacaag 360
 acattacccc ttgaattag accagctgct catttggtca ctgatgatta catagccaag 420
 tatgaggaag ccgtgaggcg catgcaagac cttccacctg atgatcctcg cagtttcatg 480

caacaggcca atgtccaccg tgcctactgc gatggtcgcg gctataactca taaggggcttc 540
gctgactaca agcttgacgt tca 563

<210> 6405
<211> 540
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079e09d1

<400> 6405

aacaataaaa caaacatttta ttataacaat aacatagtat ccctcacaga tgaaaggggat 60
ctattaagtt ccaaggaaaa taactacaac acactaatta agaaacaaca aatgacagat 120
agagtatccc ttggagggaac aaaccctagc agtagcacac acataattta gattttattca 180
tcgtccacct caggataaac acgcttttate cttacgtcct taattgtaac aggcttgtcc 240
ccatatatgg gagccagtgt gacagaaata ctatcatcgt cttttgttac tcccaagtct 300
ttcaacttat acgttaatgg caatttgaaa gaagctttgg tgatgttggt atggttgaca 360
tgcgggcgagt gaggcaaagt cacaaagctt cccgcaaact ctgaatcctg gggccaatc 420
tcattgtcgc ctgggtcggt gatgaacaca tcaaacctca caccatcagt gctatcgta 480
tcaacatcta tcaactaacac ctcttctacg ccttcttctt cttcttattc tcgttctgga 540

<210> 6406
<211> 519
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079e10a1

<400> 6406

gcctctgccc aaggtgcaga tangacatag catgcagcat agtagaccac ttcnnagttt 60
gnnggtgggg gcgggggggtt tgnntttttt ttgggtgtat attttttctt ccactatgct 120
ctctctctct ctcttggggc cacatgtaga tgtgccttcc ttttccaaag ggagcagcaa 180
caacttgtgt actcttcttg ttgctttcca cttctcagaa agagatgcct caccacaact 240
atttcccttg cttgttgaag cctagtatca ttattgtcta gttcttgctg cgcttttttg 300
tgttctctct ctctctctct ctcttttatg gatcttgggg tagtggggtt ggaggggggct 360

ggtgggatca caaagtggct gcgtgtatcg atcctatggt gcttcagatc ctgatacaaa 420
gcacacggga tacagatctg gtgtgcctaa gccagattca tctgacattg caagtaaaca 480
tgaccagtta cgaacttatg aagtggccaa aattgatca 519

<210> 6407
<211> 334
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmfl02220079e10d1
<400> 6407

ggttaaggta aaccatttca aatttttaaaa cagacactat tacaaccccg ggaaacccaa 60
gatcaaacct tatgagtgaag agagacagta gctagccagc tacaactcgg gggggccaca 120
ttccacaaac gcgaatccat tcccaaaca acttttagagg aagaagaaca acaaaaaacc 180
gaggcaaact tgaaaacaag gaatcagaaa actggagacc ctggtgatca aaggggcccc 240
ccttggacag atcccagggc tgctgatgga aagtgaacca aatgctggtt tttgcaacac 300
cccaggtggt gaagacccta gtggaggact attg 334

<210> 6408
<211> 655
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079e11a1
<400> 6408

cgtcagccga gtactcatcg agatagaaca cattgcagnc atacgagttg ggaaaaaaag 60
aggagagaaa aaaaaagagg aagatatatt atagtaataa tagttctact agtaaacagg 120
gtagtactct ataaatagca tttgcatgca ccttagtctt caccaaaata ctctcttgg 180
catcttgtgt tgcgtccctc ttttaagcta tttccttctc ttaacacaat tggttgtgcc 240
aattgccata gtcaccaacc aattaacaaa ggtatatata tcatcatatc atcaccaaat 300
gaaaaatatt gggttgcttt ttcttgggt ggtggctact tttgtgggtg cagccacagc 360
tggtagcttt taccaagact ttgaaataac gtgggggtgt gagcgtgccaa aaatctatga 420

gaatggaaac cttctcacac tctcccttga cagagcctct ggctctggct ttcgttccaa 480
 aaaagagtac ttgctcggaa aaattgacat gcagctcaag cttgtgcctg gtaactctgc 540
 tggaacagta actgcctatt atttatcttc tctggngcct actcatgacg aaatagacta 600
 tgagtttttg ggtaactcga gtggtgatcc ttacactctt cacacgaacg tattc 655

<210> 6409
 <211> 417
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e11d1

<400> 6409
 gaataataaa actccaacaa ttttattaat gaaaatactt tacaatttca gcacatatac 60
 actgccatga atataatttt gcacgctata attatctttc gccacaaaca atggagtagt 120
 gctcaacaaa gcacaaacca acaataataa cagtttttagt tgcattaatt tacaccagaa 180
 agtaaattaa cgtaataggc aacacatgtg tgtcacgttc atgaggatca ttttataatg 240
 atatgcaaca ttgaattaaa tattctcatg caatggagca ttctggagga aggcccttgag 300
 ggaaacgttt gatatcagtg caataattgt aaatcatgta attcttttgc acccacggat 360
 ctttgctgc cccgtggcgt ccaatgattg gccagtggag gaaaaagttt ggggatt 417

<210> 6410
 <211> 625
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079e12a1

<400> 6410
 gaacatccaa tctgcagtcg acatagagca catagaaacc attctagttg atgcaccgtt 60
 ctgaattttg gatcagccta tgctaattgt ttcaacacaa tacccgatta ctttcttcta 120
 tagagaagat cttcatccag gcaaaacaat gaaagtacaa ttcagcaagc ctccctttca 180
 acaaccatgg ggtgtcggta catggctaaa tggaaattaa agacactact caagaaggat 240
 atagtgtcga agagctatgc atcaagaaag aagccattga gggagaagag aagttttgtg 300
 caaaatcctt gggaacagta attggttttg ccatttcaaa gctgggaaag aacattcaag 360

tactttcaag ttcctttgtc aataagcaag accaatacac tgtggaagga gtgcagaatc 420
 ttggagacaa agcagtgatg tgcatagggc taaatttcag aactgcagta ttttactgcc 480
 atgaagtccg tgaacaaca gctttcatgg ctccattggg ggctgggtgat ggaacaaaaa 540
 ctcatgcact tgctatttgc cactcaaata cttctggaat gaatcatcaa atgcttcac 600
 aacttatggg agttgatccc tgaac 625

<210> 6411
 <211> 378
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079e12d1

<400> 6411
 accatatata tatagagaga gagaatacga agcacactga tcacaggatg atgctctctt 60
 taagtaggga agcagatctt atcagtacac ataggtaggt tgaaattcta gctctagcaa 120
 tctagctaga gaaggtagta cttgcacaac acacagcaca tgataattta ttttatacac 180
 aatctcattc tcatgggtgct caagatgcat ggactaatta agcaacaatg ttgggtctgat 240
 agggcagtggt ccacaganta aattgggtac ccataaaatg gccttgcttc caaggaaatg 300
 gcaacagggt tagttccagg atcaactcca taagttgatg aagcatttga tgattcattc 360
 cagaagtatt tgagtggc 378

<210> 6412
 <211> 522
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079f01a1

<400> 6412
 atggcagggt tcaagggcga tgacgagtag gattacctat tcaagctggg tctgatgggc 60
 cattctggag aggagaagtc caacctgctc tcgcgcttga ccaggaacga gtccaatttg 120
 gtgtccaagt acaccatag ggttgagttc gacaccaata gcttgaacat cgatgctaag 180
 gtcacaaagg ctacattgg ggacaccggg ggccaggaaa ggtaccgtgc cattactagt 240
 gcttactacc gaggagctgt cggcgcttca cttgtctatg acgtcacact ccgtgctaca 300

ttcgagaatg ctgcacgatt gttgaaagaa ttgagagatc acacagaccc caacatcgcg 360
 gtcattgctta ttggaaataa ggccgatctt cgtcaccttg ttgctgtccc atccgacgac 420
 ggataatctt ttgccgagca agaattcttc tacttcatgg aaacttctgc attataagca 480
 accaatgttg gaaatgcatt tactgaagtg ctttctcaga ta 522

<210> 6413
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079f01d1

<400> 6413

gaagattgtg aacattgctc aaatcaatat gcaagactag ccttattcta catgggtgtca 60
 cgattccagt gtaggcattt acaagatgaa acaggctata aaaaccaact gccatagatg 120
 aagcatctag tttgagcagc acccaaagt cttcaaaacg gaggaatcgc ctttcacatt 180
 tattgactga ccttttagatg ggacagcata agaactggca ttcttgccgg tctcaacagt 240
 tctcttgctc actattcacg atatctgaga aagaacctct gtaaatgcat tttcaacatc 300
 ggttgcttgt aatgccgaag tttccatgaa gctgagagat tccttgccg tataagattt 360
 tccatcttct gttgggacag caacaagggtg tcgaagatcc gacttatttc caataagcat 420
 gaccacacag ctggggctctg tgtgagctgt caactcttcc aaccatgttg cagtattctc 480
 aaatgtagca cggcgtgtga catt 504

<210> 6414
 <211> 454
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079f02a1

<400> 6414

ctctttcgtt tctcatcatc agagacttac actccaattt ccaaaccgaa tcgaatggga 60
 attgcgattt gaatttgaat ttcattttca acttcctgt gatgccttac acggtccggg 120
 agaacctttg gatcggaac atcggcgact cggcggagat tctcgaaaac ggcgccgtac 180
 agagcgtgac acacattctc tccgtcctca gtcgcgactc catttacttc ttatccgaat 240

ggagaaccac tctctccatc cccggcaagg agatcaccat agtccacgcg gcggacgccg 300
 tcgtcaaate ggcgctcccc cccgagaagc tgctatactc tctggagtac gccggccgcg 360
 acctcaagct cgtgcgcatg gccgagcctg tcagagacac cgagaatgag gacctgctcg 420
 attactagga agcctgcacg ggtttcattg atcg 454

<210> 6415
 <211> 530
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079f02d1
 <400> 6415

gaggcaagaa atatatcttc attcaggtca agtggatgta ttcattccaca ttggatttat 60
 attcttgtgt ctgtttcaac ttgtaaccaa tttcttcaca gcgaagaaaa aaatttgtat 120
 attgaaaata atagaaaaac gtacaatgga gaacactcat tttcttttgt agaaaaaagc 180
 attatccttg cttacggtaa aatcatcgag ggaacaagcc ctaatattgg aatcccaact 240
 catgctcac catttactag aaaccagtaa taatctccaa tcatagctcg aaaaagtcac 300
 tctggaagat gcacaaaaat tgtaaaacta taatagtcct cccttcata taactgcatt 360
 agttcagctt ggaaaagttg agcatgtcca aagagcaaga ctccaatcct tccttacaca 420
 atttcattgt tggcagtgga ccagcttgga gaattcgggc agatacaagt cctagaacaa 480
 tgacaaaaat ataggaggca tcccttatgc ataaaatgac gcaaaaatga 530

<210> 6416
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079f03d1
 <400> 6416

gatgaattga gattttnttt tacatgaaac accattaatg tgcacaaaacg tcataattaa 60
 agttacatac gttacactgg aatacatacc atatcaacag caatagatga tgacatttat 120
 tatcaacaat tcaagcaata acccaaaatt gaataaagta tcatcactaa aatgcggcct 180

tcatgaaaat aagtagaggg gaactttggg gtattggtaa taaaaatagg atatggaggg 240
 ttatatcaaa ccctatgttt gggtagcatt tatggcccag aagtgattag acttacattt 300
 tactgataga tccttggcat taatctcacg gaattcaaat tagaaatcac ggtcttttagc 360
 aactgggga tagacttgcg ggtagcgggt g 391

<210> 6417
 <211> 224
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f04d1
 <400> 6417

ggggaaaaag ccttcgtttt tatttaattt taaatgggggt tcacaacccc ttggaaacct 60
 agccggttcc aaccctaaaag gccttcatgg gaaatagggc cctacaacgg gttaaaacct 120
 ccataataaa aattcataac ccatccaacc caaaaaaaaaa gggggggccc cttttttttt 180
 tttatgggac aaaaggcccg gaaactttgc ttccgggggt tccc 224

<210> 6418
 <211> 526
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f05a1
 <400> 6418

ctacaagtga agagttggaa acaaaagatg gcaggtttgg gaatatggat ggggttctgtt 60
 agcctgtgtc ttctgtctgt atcagtatca ggtctgtctc aacgcctaga gcaccctgtc 120
 aaagctgatg gctcacttag ccttatggtc attggagact ggggaaggaa aggaacatac 180
 aaccaatctc aagttgccac tcagatggga agggttgctg caaagttaaa tatcgacttt 240
 gtgatatcca ctggagacaa tttctacgat gatggattga ctggcataga tgaccctgca 300
 tttgaaattt ctttctcaaa aatctacact gccaaagagcc tccaaaagca atgggtatagt 360
 gtgttgggca accatgacta caggggtgat gtcgaagctc aatcgaatcc aatccttcag 420
 aaaatcgatc ctagatggat ctgccaaaga tcattcattg ctgatactga aattgctgag 480
 ttcttcttca ttgattcaac acctttttgtg gacaagtatt ttctta 526

<210> 6419
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079f05d1
 <400> 6419

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
 tttttttttt tttttttttt tttttttttt ttggggcgta aaaaaggggt tcacccccca 120
 cattaaaaaa taatggggga ccttttttaa cccaaaggcc ccctttcccc cccttattaa 180
 aaggggaaaa aaccaagggg ttaaaaaacca aacgggggggt ttggtttggg ggaaaaataa 240
 ggggggccaa aacctaacct tggggtcctt ttgcaacccc cggaacccca aaaccttttt 300
 tatatggcga aaaccgaaat ccccaacccc ctggggcaat tccccacagg gaaaaatttc 360
 cccaaaatat gggaaaaaac caccttggca ttgggttctt cccgctcccc gggc 414

<210> 6420
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079f06a1
 <400> 6420

gttcaaaagc atataagaga tgggggttaga aggggaaggaa acgccgtcgt ttatgaggga 60
 ttctctcgat aagtgtggtg gctgcgccgt tattgacggg ggttttgcca ctgaacttga 120
 aaggcatggg gcggacctca atgacgaact ctggagtgcc aaatccctta ttagctcccc 180
 acatctctgt cgaagggttc acctagatta cctcgatgca tgagcaaaca taatattaac 240
 agcatcttat caggccacta ttgacggctt cgaggccaaa gggttcttta gagaagtatg 300
 tgaaactatg cttacaagaa gcgggggtgat tgcacgtgag gcacgtgaaa cttattctga 360
 taggtgcacc agagattctt ctgactctat gagagatgat agatataggt aaccttccat 420
 tgtaattgca acttctgtcg caagctatgg agcgtattgg gctgatgg 468

<210> 6421
 <211> 464
 <212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079f06d1

<400> 6421

cctccggcaa aaagttagcc atttcattca gattattata gtttcttcca ttacagataa 60
 aaacacactt caacagttat atacatttgt ctttaagttt cccatatgtt gcctctgcta 120
 tgcctcttat agtattagga gtagtcctgc agcagccacc aaaaaggga gccccagcat 180
 cagccactt gcctatgtag gagacaaaat catgctctgc tgccccactt gatttcaccc 240
 attggttgct ctgagcgata taagtctccc cactgttggg atatacaagt actgggtttac 300
 ttgttgccct cttgataaat gaaatcaatc catgaataaa tctaggagca gtacaattaa 360
 ctccaaccgc aacaacttgt ctgcatgaat cagctattga agcgcattca aagatagagt 420
 caccactaac cacattgctt tcatccttac aactaanaga aaac 464

<210> 6422
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079f07a1
 <400> 6422

ctccgtcact tgtgaatcta ttgaatcaac aatcatgtcg gacgaagagc accatgtcga 60
 gtccaaggcc gacgccggag cctgcaaaac ctaccctgag caagccggta ccatgcgcaa 120
 gaacggctac agtagtcatc aaaggccgcc cctgcaaggt tgcggaagct tcgacttcca 180
 aaactggaaa gcacggtcac gctaagtgtc actttgtggg aatcgacatt atcactgcc 240
 agacacttga ggatattgtg ccctcttctc acaactgtga tgtttctcat gggaatcgta 300
 ctgagtacca gtcattgat attgctgacg atggattttt gagtctgctt actgaaaatg 360
 gatacactaa cgatgaccgt aagcgtccca ctgatgagag tctgctcact cagataaagg 420
 atggatttgc tgagggcaaa gatcttggtt gggctgtcat gtccgctatg ggtgaggaac 480
 agatatgtgc cctcaaggat attgggcca aagactagct cct 523

<210> 6423
 <211> 450

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f07d1
 <400> 6423

cccacaatag actcctcctt tataataaaa tcacaggaca acaaagaaaa ccagaaaaat 60
 gtgataatag tttctgtcac cacatccata aaaaccattg ttaagactag tctgactaga 120
 atctatacgc caggtcttga acaaaccaat ataaaaggct tacaaaaata tctttgctta 180
 aatagaaaat agaaataaca agcaacaagc accaaaagct agttccttgg cccaatatcc 240
 ttgagggcac aaatctgttc ctcacccata gcagacatga cagacacaac aagatccttg 300
 ccctcagcaa atccatcctt tatctgagtg agcagactct catcagtggg aagcttgagg 360
 tcatecttag tgttaccatt ttcagtaagc agactcaaaa atccatectc agcaatatca 420
 atgagctggt aatcagtacg attcacatga 450

<210> 6424
 <211> 351
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f08a1
 <400> 6424

gtgggtgcctt atcgctgcgg ttatcatctt cttcttgctc tttcttagat ctcttcttct 60
 tctacgccgc acgccgaaac catggccgga aaaggagagg gtcttgctat cggaatcgat 120
 ctccgaacca cctactcttg cgtcggtgtg tggcaacatg accgcactga aatcatcgcc 180
 aactgaccaa gggaacagaa ccacgccgtc ttacgtcgga ttcactgaca ccgatcgtct 240
 catcggtgat gctgccaaga atcaagtcgc catgaacccc agtaacaccg tgttcgatgc 300
 caacaggctg attggtcgta gattcagtga ttcctctgct cagagtgata t 351

<210> 6425
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f08d1
 <400> 6425

gatgactaaa gacaagatat gtcattttaac aagacagaat aattcctaca ggtaaagtgc 60
 ataacaattg agtataccat ttaatacatg aaaataacgc aaataacata atgcttaaag 120
 caacgttcat atcacaaggg aaaaatagtt ggaatcccat ccaacaaaaa tcatgcgatt 180
 aaaatccaat taaaaaagca taaagtaaaa taagttttta aaacaggttt ttggaggaaa 240
 gccactacat ttagtccact ttctcaatct tggggccagc accactttca ccagaaggag 300
 gagcagcata ctcatctct gctgcaccag taccaccac gtctggacca gcgccatctt 360
 gggacatatt ggcaatgatt ggattgcaga tgctttccaa ttccttcatt ttg 413

<210> 6426
 <211> 259
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079f09d1
 <400> 6426

gcagcaagat aacctgtcaa aaattgtaat tcagaacacg taaaactaca tctaattgcag 60
 agtcagaaac catagtttta aatgggtattt gtagccctct tgcatagaaa cacaaattaa 120
 gcattctttt gtgcaggctt ctttagcccc tctaggctct agcatagaac accaattaag 180
 cattcttttg tgcaggtttc tttgaattgt ttttccgacg aaccttcacc aaagcttttt 240
 gtaaatectc ttcacgttc 259

<210> 6427
 <211> 661
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079f10a1
 <400> 6427

cgcgcaagat tgcggataga catagaattc agatcngaaa acagatccna atttgaaggg 60
 naaaaccaga gagagagaga gaaagggaaa aatttcagcg ataaaaggga tagttaatgt 120
 taagggaccc aatataagac gggcaatgag acaatatttc ctatatatgc agctttcttt 180
 ttaaaattgt caatgagaca cctgcactaa gtgacgagtt aaatataaaa ttaagggtta 240

atatgttttt tcttcttcct gaaaacaggt taatatttat ttttatatct taaaagttaa 300
 attatttatt ttttatcttt tatttatgaa aatgtgttac atctgattct tatttctata 360
 cgtgcatgag gaattaaaaa tagatTTTTT tatgaggcaa agatcagata tgatatattt 420
 tcataaataa aagttaaaaa agaaataatt tatttttggt ttaccttttt gcctagacta 480
 aaacacatat ttaacctttt aaggattaaa tgtttttact tgaaaaaatt actaaatctt 540
 aagggtgatg ggtgtacttg agaaaatgta aaacatattt attgatggaa aacctaataa 600
 ttataatgaa tacatataat tgattattct tttttacttt ctacaaaatc actaaaaatt 660
 t 661

<210> 6428
 <211> 507
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079f10d1
 <400> 6428

ccaacaatta atcactattt aatttcccc acattattgt tttccctttt ctatttccac 60
 tgttacatta tgtcatgaca acaacaatag taataatgaa agcctagaac caattaagat 120
 tcctttgtcc ctaactagcc caaagcatgt ttaatcatta atcacttgca cccaccagca 180
 ccaaaccxaa ttctcccacc ttcaacatca tacacaacct ctattgttct ctgttgtacg 240
 ttcccatata tagtaacatc actatcgtca ccatttgagg caaaagccaa acaaacctgc 300
 ttggtactcg ccacgaagag tataccctgt ggaggcagct tcaccgtgac gccgccggcg 360
 aacgaaaatt ctatcgtggg aatggaaaac accttgtaac cgctgagatc atacacgtgt 420
 cgaggatgga gagttccccg gcggagggtt ttttgacatg ccttgacgaa ggcggtatcg 480
 aggcgccgta gccgttgggg ggaggcg 507

<210> 6429
 <211> 592
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079f11a1
 <400> 6429

cgctcatgat tcggatcgac atagatgcac atgagaaaac cgancaaaan tattaaaaaa 60
aatcaaggga acagagaaca naggggaagaa aangttgaag gcaagcgtna cgttaggcca 120
tccaacgggt gtctacactc gccctcttga tgcacaaact ccttctctta aggcacagct 180
ttgcaaggag ttcaactcta tgggggtcac acttggtccat ggagaacttg agcatgacca 240
gattctggca gtgattaaac aagtagacat tgtgatatgt tctcttccat accctcaagt 300
gatggagcaa ctcaaaatta tagatgctat caaagttgct ggtaatataa agagattcct 360
tccatcagat tttgggggtgg aagaagatag agtaaaccct cttcctccgt tccaagcttt 420
cctcgataag aaaagaaaaa ttagaaggga aattgaagca gctgggatcc cttatacctt 480
tgtctctgca aactgttttg gtgcttactt tgtcaattat ttgcttcgtc cttacgaaat 540
tactgtctat ggcaacggtg atacaaaagc tgtgctaaac tatgaagaag at 592

<210> 6430
<211> 452
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220079f11d1
<400> 6430

aatataaaat caaatattta ttaagaataa aatcatatth aagtctatta atcatgtatc 60
ccaaacattt atgccttttc atgggtattca acggtaatcg ggaggatcac ctactttatt 120
acaatttata accaacaagt gcagggtaaa atgtcttcac tcaaaagcag cagaggcagg 180
ggctggagga tcaacaagaa atatatcaag aagttcatca atggatgtgt agttataatc 240
aggatatagc tgggaagctt caagggcatc ttctcctatc tcgaacctca cgagggcccc 300
tctaacaaat acactatgaa ggatagaaac gggaatattg tgtgaggggg taaaggctctg 360
tgaatagggt gacaatcttt ttctcagcaa caaaatcctt gcgaaaattt tgccactttt 420
ttgctccac aatgctatca actcattttg gg 452

<210> 6431
<211> 628
<212> DNA
<213> Glycine max
<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079f12a1

<400> 6431

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gagagagacc ggggagaggg agatgagagg ggaangaatt tggaaaaaag gagaattaat 120
gagaaagtat ggggtgtattg aaagcgcgct tntgtgcttt tgggatccct tgctgctgct 180
tgctagcttc agctatgctc cttctgtttc ggccacaact gaaatttcag ggaatgaagt 240
gaacacagat gggaagggtga taaatgaaga gttagcaaaa ccaagtctaa aaggacatga 300
tgaagaagca aagttcaaag gattttttcc aaaaccaatt cctatagtta aaccaattcc 360
aaagccaatt cctattatta aacctattcc aattccagtt tataagccta ttccaaaacc 420
aattcctatt gttaagccta ttccaaagtc aattccagtt gctaagccaa ttcctaata 480
agaagaaaaa ttcaaaggat ttattccaaa gccaatcct ataattaagc ctattccaaa 540
gataattcct attgctaaac ctattccaaa gataattcct atcgttaaac ctattcctat 600
tccagtttat aagcctaaac caaaacta 628

<210> 6432

<211> 390

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079f12d1

<400> 6432

tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 60
tttttttttt tttttttttt taggaaaaac cgggccctt tattacaaaa aaaaaaacga 120
tctaaaaacg atccccccgg aaactttatt gaacaaagag catgaaccac ttattttcca 180
ttacaggacc ccaaaggggg cccaaattta ttttgaaaaa ccaaggagcc tggcctaaaa 240
agggttttaa aaaggggacc cataacctta taggtgggaa aaaagggtta aacccttagg 300
ggggtggaaa tggcttggga aatgcaaagg gggaaaaaag agggttcttg aaatggggag 360
aaaagggacc ttaagaaaaa aaggcctttt 390

<210> 6433

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079g01a1

<400> 6433

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tttgaacccc accgtcagcc ttagctcaac gaatcgggag acagaggatc acgatgcac 120
atgatcttcc tgggggggctt ctttaccaaa cgcacccac tctacacctt tgttgatcgt 180
gtctagatcg tgaaagcttg gcacggaaag aagatttggga ccttgactgt cagtggcaga 240
tagggatcag ctgctgcag acaacagtag tagcaaggat tgcgacaatg ctgaaaattc 300
tgcgaccaat gatcagactg catacgggaa ttccgcagat gaaaacttac aatcgcaaac 360
cgaagttaat gctgtgtcag gatctgcaac attagaggct tccatgtcca atggttcaat 420
taaccaagag caatggtcag aagcatctcc tatgtcacia tctgcaacca acgagctttc 480
ctgact 486
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<210> 6434

<211> 525

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079g01d1

<400> 6434

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gtgaaaaact gatcatcaac atcatcagtt catgaagttt gaagcagccg aagcttgtct 60
acatatatat aataaatcaa ctatctgatt gttttatggg gaattcttaa caccacacct 120
aagtactcat tgaaatggat tgcaccaact ttccacacia tgtaagttgc tgcaaaccac 180
actgtgctga taaaaacaaa tgagaagata atgaaaaaga gatcagaacc tccaggaaat 240
tggaagtgga agcctgttga caaccctcgt ttgctatcat caaacaatt aatagggggc 300
tctggaagtc cagatTTTTT cttccctgac cttttgtcac tttgttttga agcctccaac 360
accctgctgc tcatgtctgg cttagatgct tctgattgag cgtatcgggt gatggatcga 420
gctgccttta acctctctgt tgcagtcacg gaagctcgtt ggatgcagat cgtgacttac 480
gagatgcttc tgacctttgc tattggctaa ttgaaccatt ggaaa 525
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<210> 6435

<211> 588
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079g02a1

<400> 6435

tagaagcaat aagatgaaaa tgaaagtgct tgttttggtt gttgctacag ttttggttagc 60
 atatgaatgc catggctcag actaccagaa gttccctctc caaatgaaaa ctgggttttg 120
 tgggcaatac agcaatgagg tggcatgtgc cagttggagg cttggcgtgg aagcaaacia 180
 cgtagtcaag tggcaaactg ttcctgcagc ttgaggagag tacatagctg actacgttct 240
 aggagaccaa tatagatcag attccaaaac agttaaccaa caagcttatt tctatgctaa 300
 atccctcaaa ctacccaaca aagatgtctt tgtcttgagc gttgacgaca ctactctctc 360
 taatctccag tattttgcta accatggatt tgggtgtggaa ccacacaata cgacggcggt 420
 taagaactgg gttcttgatg gcgaagcatt cgcactgcca gagactctta aaatgcacaa 480
 caaactgttg gctctcggca tcaagattgt attcttatca gaaagaccac tgagtctagg 540
 ggatgtaaca gccatgaact taaggagggt gggattcaca catggggag 588

<210> 6436
 <211> 428
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220079g02d1

<400> 6436

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 agggccccta catgactaag taataatact caggatctta tttcatagaa attaaggagc 120
 aacttaaagg cttgatttga gagcttaatc atagtccaag ggattaggca gcttaaaagt 180
 cctagtcctt ttgttgcttc ccaggaggtc actccattgg tctccaacgt ttccaatgat 240
 tctgtatccc tccttttcca gcttttcttt ctacagctgat ttggattcaa atgataactt 300
 accagagtac tcagatggat ccctgagaat taacttctcc catgtgttga atccaacctc 360
 ctttaagtgc ttggctgtta catcccctaa actcaggggt ctttctgata agaatacaat 420
 cttgatgc 428

<210> 6437
 <211> 545
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g03a1

<400> 6437

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 gagagatatg accgattacg aagagagata cgaagggaac ggagaagaag aggaacttca 120
 caattctcat catcagcctc atcctgattc ctctccttta cccacccacg acgatctcac 180
 cgattccaaa tctcgccatg gatctcgga ttatgacaga gattcttcca gaagcagaga 240
 taaggagcgg gagaaaggga gagacaggga gaaaaaagg gaaaaggga gggacaggga 300
 aaggagaaaa agtagggata gggattcgga gagaagcagg gacaaggaca gagataggga 360
 taagagcaaa gacaggga gggaccgga tcgtgatgtt gagaaggaaa gggaccgtga 420
 cagggaccgc catcatagag atcgacacag ggatcgtgtt gagatgaggg aaaggacaag 480
 ggatagagat gacgatgatt atcacagaag tcgtgacttt gacagaagaa aggattttga 540
 tagag 545

<210> 6438
 <211> 377
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g03d1

<400> 6438

agaaaaattc ttaagggcc cccaaaatcc ctgggaaccg ggaaaacctt ttaacaaaa 60
 tggcaaaaag gcttttttaa caccgcatt taaaaaaaac aagttttgga ctatgacccc 120
 aatttttagct taacagggtta tgaaaaaaa cccaaaaaat ttccctgcca aacaaaaaaa 180
 aacccaaacc cccataatt aaccctaaa aaccccccg aaaaaattgt tccttgaaa 240
 aaaaaccctt tcccttgaa ttcaaaaaa atttgggcc ttaaaccg cccgggcttt 300
 ttgaccccc ccaaaataaa cggaccccaa aaaaaccttt tcaaactcaa ggggggggtt 360
 cccacaaaa ggggggc 377

<210> 6439
 <211> 568
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g04a1

<400> 6439

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cttcaatttc aatagtctct tcttcattct cattcgtctc cgattctcct tccacttctt   60
cccctaccac cagaatcaga cccttcttct tcccttctct caaccgaacc cctctttttg  120
tggtccccag agtccccctt cccaatgcta cctcagagc ctcttcttct tccgtttccg  180
caccgcagga aaatgggtcg ccggaacagt tctgaagag caattccatc gccgatttct  240
tgcggttcaa ggcgccggcc gatggtggtg tcagtgccga attgcagaca gctcttgtca  300
gctataagaa gaggttccct tggctactta tgcgcccttt ccttcagggt gacttggttt  360
ccacaattca catcgtgat gaagagtatt ttctggccct ccaaaaggaa cttgagagct  420
atgatttgtt cctttacgaa atggtagcta gcatggaaag tttagaaaat agaagaaatg  480
ctactactac aaaaagggtta aaaagttcac gcacaagggg ttttaacatt ctgggatgca  540
tccaaagaca gatggctcta attcttac                                     568

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<210> 6440
 <211> 470
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220079g04d1

<400> 6440

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agctaataaa gcatatgctt aatggctaaa gttcattgaa tgcaaacaat cgtatcattt   60
taacactgaa aaatgggaac atctggaatt ttatatttgt caataaaaat taaaagctt  120
ttgatgttta cagtggcata tataagattt cttcatccta tttagcaatt agtatgaatt  180
ttccgagtcc aatgatcata tcactctgtg attatcaaca tactgaagaa gttctgagcc  240
aagttcagag acccaattca ctgcagtgcc aaagaagagc tcccagaacc acagatccaa  300
tgctaagact gatgaaaaga tgagcaatgc caaggtctga tagcggttca atggccagcc  360
tgaggcctta gcaattgtct tcagaaatgg aaatgaatca gtatttaggt cctttttcgt  420

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tatggaccaa gctgttatcc actgtacatt agacgggact aaatcaaaat 470

<210> 6441
<211> 599
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079g05a1

<400> 6441

tcgttttcat actttattcc tttaaaaaat gtttaaaagg agcaaacatg agtgaaaatc 60
cttttcgact agactgttat taacgtgtaa gccaccggca gattttaaaa ttctctttta 120
taaaattaaa gtatctctat ttatatgaaa acgattataa aaaaattaac ataatggaca 180
aaatagttta agcagaaatt aattcatatc tactcacaat gatcctatca aatttaagaa 240
ggattaatth tagtgaaaga tacttatata taccaaaaac aaaagttcgt tcataaaata 300
gaagtaaaat attttaaaat taagtgtatga taagtactat cacattataa agaatagggt 360
ctacaaaaaa aatgaagtat aggtccgttc ttgcgtcaag tcaactatcc tcaatttcat 420
gaaaaaaata tatactaatt gagtgtctct aaaatagata tgtgagttat acttattttt 480
taatgtaatt taatgtacat cttgattaca gatttttatt ttctggtatc tacaaaattc 540
ttttgtcatc ataacaatgt ataataatca ctggtttcgt taataattaa cttttatta 599

<210> 6442
<211> 537
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079g05d1

<400> 6442

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cccccttcg tgtctgtctt gtacagttgg gttacattaa ataattgagg aatcttcttc 120
aacatcaagt tgagtgtgaa attaaggtat tatgtacatt tttaactgca agtggttgtt 180
tttaaaaaaa gcaaataaga atttgtttat ttttaatttt agtatatact gggaataatg 240
agatttgtct tctaggctgt gttcggtttg caaaagatgg aatgaattac cgggtggacgg 300
aatgaagta tgcgagtttg gttgtgatga ttttagagaa agtaaagtta caagttgtga 360

gatccgtaac atcaattttc tttctttccg gttgtagtaa aattattttt ttaggccaca 420
 aaataaattt gtaagaaatt aattntttta agaatttttt tctttgatta tctaattatc 480
 agattatatt taggcaacan aaattatttt tttagaacaa aaatctagat tctttct 537

<210> 6443
 <211> 468
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079g06a1
 <400> 6443

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 actacaaagt cactgagttt agtgtttcgc caaaaccaat ggatgatgat attgtaggac 120
 tcggttttcg tccaacagaa gaagaacttg tggactttta cctcaaacac atgttgctcg 180
 gcaatgatcc ccgtgcccac gtcacccctg tcattgatct ttgcatgtg gaaccttggg 240
 atgtaccagc cctgttgatt tcaagtattc aagaagtaaa aggtttaaca ggacaaccaa 300
 gtgtggcttc tggaaagcca ctgggaaaga ccgtgacatt aggacagggg aactaacac 360
 cgtcattggg actaagaaga ctcttgttta ctatcaaagc cgtgtttcct gtggtgtcaa 420
 gtccaactgg gttattcacg aatatcatgc tgttacctt catgaaag 468

<210> 6444
 <211> 419
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079g06d1
 <400> 6444

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 tatagaacta tttatatttt ataacatata ctctaaata gctgccagta atccattaat 120
 ggaactaact tagatttttag ttcccatcat acgaagtgt ctagtcttca ataatttgt 180
 cttcaatgac tctgattggg tggagctatg gacaaaatta tgcttatttt cttcattgat 240
 aactatactt tcaccggcta agattgaatt caggaattca tcttcctttg tagtttcaaa 300
 tggattccgc ataacattgt cttcatttct aaaataggca ttgttaaag catagtttgg 360

aaaggatgct ccttcctgct caatactagt tcgagactgt tgtattggag agaagcaat 419

<210> 6445

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079g07a1

<400> 6445

gaaaggtagg ataatcgattg aaggggaaag agtggctctc ttgggctatg gatcagctgt 60

tcagaactgt tcggctgcag cttccttagt ggaatgtcat ggcttgcgct taacagctgc 120

tgatgcacgt ttctgcaaac cactggatcg gtccctgatt cgcagcctgg caaaatcaca 180

tgaggcttta atcacagtcg aagaaggatc aattggagga tttggttctc atgttgctca 240

gttcatggcc cttgatggcc ttctagatgg caaattgaag tggcagccaa tagttcttcc 300

ggatcgatcat atcgatcatg gatcacctgc tgaccaattg tctctagccg ggcttacacc 360

atctcacata gcatgcacat gcgctcaatg tactatgaca aacaagagag gcactatagg 420

tcatgtcata acaatattca tgggatcaag ttttcacttc acacgatgta caaaggctaa 480

cat 483

<210> 6446

<211> 478

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079g07d1

<400> 6446

ataactagtc gttttactat atgacaatct acatcatata cttcaaaatt tcacaatatt 60

acattacttt ttcattattac acatgggtgaa tcatgttata ctttgtacat cgtgtgaagt 120

gaaaaattga accccttaat atttctatga catgacctct agtgcctctc ttgtttgtcc 180

tagtacattg aacactgttg ctgctatgtg agatgggtgta agaccggcta aagacaattg 240

gtcagcaggt gatccatgat cgatataacg atccggaaga actattggcc gccacttcaa 300

tttgccatct agaaggccat caagggccat gaactgagca acatgagaac caaatcctcc 360

aattgatcct tcttcaactg tgattaaaac ctcatgtgat tttgccaggc tgccaatcag 420
 ggaccgatcc aatggtttgc agaaacgtgc atcagcaact gttaagcgca ngccatga 478

<210> 6447
 <211> 499
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079g08a1
 <400> 6447

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 ccaaagatgc tgccatccca gccatgtttg ttagggcaga gacagagcaa ccaggcatca 120
 caaccgttca aggggtgaac cttgaggtgc caattattga ttttagtgac ccagatgaag 180
 ggaaagtggc gcatgagatt ttggaggcaa gtagggactg gggcatgttc caaattgtga 240
 accatgacat acctagtgat gttataagaa agttgcaaag tgttgggaaa atgttctttg 300
 agttgccaca agaggaaaaa gagttgattg ctaagcctgc tgggtctgat tctattgaag 360
 ggtatggcac aaagcttcag aaagaggtga atggcaagaa aggggtgggtg gatcatttgt 420
 tccacattgt gtggcctcct tccttcatca actacagttt ctggccccaa aacccnctt 480
 cttacagggg aagtaatga 499

<210> 6448
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079g08d1
 <400> 6448

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 ttaaataaca aaacagagaa accatgagct ataattatct cgtagtgcc acttcattca 180
 ttgagggatc ttattgagct tacaataagc ataatccttg tatttcttgg ttttgtattt 240
 'tggtggattg tcttggttaa ccaactttgg gtgaggacca acttcttgtt cctttttggg 300

cagtatcaga aattctgaaa gtcaatattt agtcttcata gatgcatcat ttacagtttt 240
 atacttgagc cttgaaaagt gactgcaccg gtttcggaga caaatttgcc acactcctga 300
 acttctgctg gttatatattt tcgcgtatag aattcaga 338

<210> 6451
 <211> 607
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079g10a1

<400> 6451
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 gacgagagag ggaagggaga gaggaatgc attttgcaca tctaggaaat attgctgata 120
 atccgagtcg tgtaacgatg agggcatggt ttgcctttgg ccacttgata ccatttttca 180
 aactttccat agccttagcc aaagctggtg ctcatgtctc cttcatatcc actcccaaaa 240
 acattcaaag gttcccaaaa attccttcga ctttatctca tttggttcat tttgtggaac 300
 ttccctttacc atcattggac aatgatattc tgccagaagg tgctgaggcc accgtggaca 360
 ttccatttga aaaacatgag tacttaaagg cagcattaga taagctccaa gatgctgtga 420
 agcaatttgt ggccaatcag ttaccagatt ggataatctg tgatttcaat cctcactggg 480
 ttgtagacat tgcccaagag tttcaggtaa agttaatctt attttctatt ttatctgcta 540
 ctggaacaac attcatagta ccaccaggta caaaggcatg tcacttatct ccagaaagtc 600
 taacagc 607

<210> 6452
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079g10d1

<400> 6452
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 agaaaacaga tgcaattatt gaaccacgac ttaaagagta ggactttatt caacaaactg 120

atgataaacc taaaataaga cacagtaatg atcctcttca acatcatatt ggtttctga 180
 ttccattctt aagaaactgt acaaatgcag ctacgtagt atcctgggtgc agcttcaagt 240
 ttcctacaat tgcagcagct tctcttgtat tatttctgat cttctttcct tctccaata 300
 cncatggctt gtctaaggga tgcggcaatg tcatttctag tgaatgatcc atcttcattt 360
 cttttcactt caatggctaa tctcttttcc accaaaaacc ttgcattaag aggttgctct 420
 atataaaggg taataaacna agtgtattcc caactggaag gttttaatga cagaacccca 480
 gncagagtga aacaaagatc cttcaataga tgaat 515

<210> 6453
 <211> 646
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079g11a1
 <400> 6453

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 aagatcgagg anggtaaaga gactgttggt aaagatttta cccatgacac tccttctgct 120
 ccttattctg gtctttcacg cggcgggggc caatggacag tggcagctcc tccacaaaaa 180
 catcggcatt gtcgcatgc acatgcagct tctgcacaac gaccgctca tcattctcga 240
 ccgcaccgac ttcggactct ccaacctaac cctccccgac ggaagatgcc gcaacaaccc 300
 aaacgagttg gtcgtcaaac gcgactgcac cgcgcactcc atcgaatacg acgtcgcagc 360
 caacacattc cgcgctctct ttgtccaaac caatgtctgg tgctcctccg gttcggctctc 420
 tcccgcagga acattagtcc aaaccggtgg cttcaacgac ggctaccgtg cggtcagaac 480
 cttcaccccg tgccgctcgt gcgactgggc agaagttcag catggactcg cggcgcagag 540
 atggtacgcc accaatcaca tcttgccaga tggacgtcaa ataattatcg gaggaagaag 600
 acaattcaac tacgagtttt accccaagac acaagccaag aatact 646

<210> 6454
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079g11d1

<400> 6454

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 ctcaagaatc tgttcaactcc cagacattca caacaataaa taacttgaat aaaaagaaca 180
 tatacgaacg aagttgtcga gcaggcagag acgagaattc acaatttcac accatctgga 240
 cccaaatacc gtggcttgga acttcttgat ggaccacaaa cagcagatag aaacccggtg 300
 gcgcaagaac agcggaagcc ggcgcggtta cttaacctcg tgcgttgatt ctccaacccc 360
 actaaatggt gcggcttcag caccaacagc ctctgattca tggagaacga gtgcgtgtta 420
 aatggcggn cccagcatggt aacagacacc gaatcccaa ccaaagtcgc gctcacctta 480
 aaccgaagcc ttaacg 496

<210> 6455
 <211> 678
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079g12a1

<400> 6455

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 ctaggtcnga ngttggangc nnanngccct gaggtggaag taggattgga gatgtattht 120
 gatataattat tgatthttat gtgctgagag acccaatact cttacggggg gccatagagg 180
 gagagagaag ggatggttgt agtgggtcaat atgatcaaat ttgcaatgca cgattacctc 240
 gagcacttga tccccactct gctccatcag aagagctthc cacttctthg ggatacatgg 300
 tgcaacttct aaatcttggt attcacaact tggctgcccc agcacttcat aactcagggt 360
 ttgcgggttc ttgctctcgg atatggcaac gagattctta ttgggatgca cgctcttct 420
 caaggagcaa tgaatatccc cthttttatac ctggccaaac ttattgctct actgacggag 480
 aaaactcatg gtctgagaga agctcaagca atthttggagt tgcttcggtg gaatctgaga 540
 ggaggcatcg cctagattca tctgggagta ctagctctaa ttattctthg gcttcttctg 600

attctgttca aacacacaaa gatttgcaga acggaatttc acttctaaaa gacagcgtag 660
tctgcatcac agcttact 678

<210> 6456
<211> 404
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079g12d1

<400> 6456

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taaagggtgat attacttact gagcccatat caatgggtga attcttggtta actattctga 120
gaagaaaatt ttgttgaaag gttgcaaatt aagatcactt cccttttagca tctatgaaca 180
tggctcgagt ccagtgtca acatcctcac tttgcatggg tgggggagga aaagtgggat 240
gctcaacaat atcccaccct tcaattaggc actcattttt gccgtcagat aaatcagcgg 300
cataaagaaa actaccagta gaacttggca gataattttc aatcttcggt gtgggcacag 360
aatgtgcact ttcagcaaag tagttgatga aatagccgaa ttca 404

<210> 6457
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079h01a1

<400> 6457

agcaaacaga gtcttcccca caccatcctt tcccccaaga gaatgagccc gttcatgctc 60
ctctaccacc gaacacaccc cgccaccacc gaacgctaac gcgcgcccct tacttaccct 120
gcgcctcggc actctgcctt attccccctc cttcataagc tccgcgttaa ccgtcctctc 180
tctctctctc tctcgatcg gagcgagact ggcggctccg gcgttggggg cgtaggggtt 240
agggttaggg tttccaagag atgtggtatg ctccaggcat tgatgaatct gctctcgctg 300
cgttggaagc catttggccg cgatgctgct gatcgaatcg attccatcg agataccgga 360
agataaggcc tagacggctt gctttggctc cgcgacggcc gaaaatatgg ctctggcgat 420
ttcttcatgg ccgctggtca cgccaaccag gttctcggag accatagcca gatcgagtct 480

ggtgctc

487

<210> 6458
<211> 524
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220079h01d1

<400> 6458

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agccaggtac ctagcaaacc aatggcgtat gcttcaggtg tcggtacaag actgcttaca 120
atgatacaag tcagtgatcg agagcacttc gaattgaaag tgccgggtct agcactgtgc 180
ctctggaaat aaggtcgtga ttttaagaata aaacaataac ggatatatca tcatgaaaat 240
ggcgtcgaac cttcttggtc atcttacgga ggtctgaata tcgcatttct cgttttcttg 300
ctgcttcgtg tagagcagcc ttgataagtc tcttggcact acccgcatgt ggattgctgt 360
ttacaatatc cacggctttc tcattactca agtgctccca taaaccatca gatgcgaata 420
taaggaagga atcatttggt tggagaggat gagaaagaat agtgggatta gcactcaaga 480
tgggcatgtt cattgggttca cgaagtctga attttgcatt aagt 524

<210> 6459
<211> 561
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220079h02a1

<400> 6459

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gtctatgaga catcttctaa tggtcttgag agaacagtta ttgttctaaa tgatatccat 120
attgacatca tggactacat ttctcctgca tcttggtgctg atgtggcatt cagaactatg 180
tgggctgagt ttgagtggga aaacaagggt gctgtaaata cagtattaca agatgagagg 240
gacttcctga accacattgt caagtctaca aatatgaagt gcctgactcc accatcggca 300
ttggaagggg attgtggatt ccttgctgca aacctttatg ctaagagtgt ttttggggaa 360
gatgctttgg tgaatgtgag cattgaaaag caagcagatg gtaagttgag tggatacatc 420

agaataagaa gtaaaactca gggaattgcc ctcaagtcttg gggataagat aactttgaaa 480
 cagaagggag cgccttaata agagcaaagc cccctgtttc tcttatgcnt ccttcgtttg 540
 tatgtcttat caacttcgtg t 561

<210> 6460
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h02d1
 <400> 6460

acttataaac gaaactggag gtatcattta tcattaatga ttattatccg aacatatgta 60
 tgcaaggcca accagaacaa ttgtcactag attgattctc atatcaatat acgggggtccg 120
 gccccatgtg tagaaaaata aaagatgggt aataaggatt tttcttaagc aatatccaag 180
 gaaagaatcc cgaccaaatt gaaaattcaa aaggaaaaaa aaaataatac taacaagcgg 240
 gctgccacca aaagccttaa aatttgaagc aataaccaac cttgaagtta gccccaccg 300
 gaagctaccc caagttgata agacattcca acgaaggaaa ccttagagaa aacagggcac 360
 ttgctcctat taagcggctc ccttttggtt caaagttatc ttatcccaa gactgagggc 420
 aattccctga gttttacttc ttattctgat gtatccactc aacttaccat ctgcttgctt 480
 ttcaatgctc acattcacca aagcattttt cccaaaaaca ct 522

<210> 6461
 <211> 515
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h03d1
 <400> 6461

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 aaacatttac atgctctgag tagaatgaac atcctatatt ttctcttttc acacctacgg 120
 ctctcattta tgctaatacca gctattatgg atggattagg ttcccatcc cagtggctga 180
 gggagctgag atgggactcc cagggtctaa atccaataag ccttcttatt gactgtgcca 240
 aatgtgttgc atctggaagc atcaagaatg cagatattgg ccttgagtac atatctcaga 300

tttcatctcc tgatggtaat gcagtgcaaa ggatggtcac ttatttcagt gaagcacttg 360
 gttacaggat aataaaaaat ttgcctgggtg tatataaagt ctctcaatcc atcaaaaaca 420
 tcattatctt ctgaagatat ccttgttcag aaatacttct atgaactgtg tccatttttg 480
 aagttctcat acctgatcac aaaccatgcc attgc 515

<210> 6462
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220079h04d1
 <400> 6462

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 ctagtgtaaa aactgtatta aacaattctg ctatgtcaaa ggagcattac aattgactag 120
 catatcatgt ctgtcatttt atgcacccct ccatagatct agctatggct gagtatttgg 180
 tctacgaagg aatggaataa accccctggt cagttttaaa ttatctaagc caataacaca 240
 ttctgcttca ggagaattta cgatcattct cgaagggtgct tggtcacggc cacaacagct 300
 tgccttcttg ggtgtccttt tccttataat agaaggaaca ttctcatagg tcattgctaa 360
 gtttcttagc aaagtttctg ggttgatgtc gcctgtgtca ttcttgagta tagacgttgg 420
 nggagtacaa ccgttattgt atgcacatgc caatgcatgt gtgttttttg acttagacat 480
 tcaactgaatt catctacact atgtggcata gtgttgtttg ag 522

<210> 6463
 <211> 544
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220079h05a1
 <400> 6463

cttaatccct cacaagctga gaaagaagaa ggaattattc ctcttacgga ttcattgccc 60
 attatttctc agtcctacat tacgcattcc cttaaagtgg aaggctctcg aggcattgta 120
 actgtgcctg ccaagctgga gtctacatct ctgcgtcttg cctatggagt tgatctattt 180

ttactcaga ttgctccttc taggacttac gattcactaa ctgaagattt cagctatgct 240
 ttgcttcttc taacaattgt tgcacttgta gctgcaatat ttgtcacttg ggtattatcc 300
 cagaggaaag atctacaaga gaaatggaga tgatctgtcc tccatttttg ccttataatt 360
 tctaattctg aagttctaag tagttatata tctgttttct ttgttagtta ttagttcgga 420
 ttttgaaatc tttttagct tgaattgcaa aagtaatgca gaattccatt aggttgaatg 480
 gaggatgttt tcattttaat gatgtaaatt gaggagtacg aaagataatc atgaaattcc 540
 gatg 544

<210> 6464
 <211> 492
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079h05d1

 <400> 6464

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 aaacatcctc cattcaacct aatggaattc tgcattactt ttgcaattca agctacaaaa 120
 gatttcaaaa tccgaactaa taactaaca agaaaacaga gataaaacta cttaaaactt 180
 caaaattaga aattataagg caaaaatgga ggacagatca tctccatttc tctttagat 240
 ctttcctctg ggataatacc caagtgacaa atattgcagc tacaagtgca acaattgtta 300
 gaagaagcaa agcatagctg aaatcttcag ttagtgaatc gtaagtccta gaaggagcaa 360
 tctgagtaaa aaatagatca actccatagg caaagacgag agatgtagac tccagcttgg 420
 caggcacagt tacaatgcct cgaagacctt ncactttagg gaatgcgtaa tgtangactg 480
 agaaataatg gg 492

<210> 6465
 <211> 545
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220079h06a1

 <400> 6465

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aaaaaggttt catcataatc ataagctgtt aggcattggcg actggattcg acaccgcca 120
 tgagaagaag aagaagattg ccgtttctgag cgtgtcttcc atcctcctgg tggcgatggt 180
 ggttgcggcg gccgtcggca taagagacgg cgccgaagtg gtcgaggaag gtggcgacac 240
 gatcgcgaaa tctcaaagga accagcaagt gatatgcgaa tccgcggaat acaaagaaac 300
 atgccacaag agtctggcca aagcctccgg aaccagcgat ctgaaggagc tcatcataac 360
 cgcgttcaac gccacggccg aagagatcgc gaaccaaadc aaaaactcga cgctctacca 420
 tgaactcgcc accgaccaca tgacaaaaca ggccacggac atctgcagga ggtactaagt 480
 tacgctgtcg acgacattcg ccgatccgtt cacacgttgg aaaagttcga cctaacaag 540
 ttgaa 545

<210> 6466
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h06d1
 <400> 6466

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 cagtagccta gctagccaag agtgaaatta aaccggtgag aattgaaatt gagatcaaatt 120
 tccaaggaa tcggtaatat agctagaata agtctgctgc aattactagc cagcatgggg 180
 aaactaacia gtgcgtgaag aaaaggaaaa ctgaattaac aatgagtag cactgcatca 240
 tcacttttcc tttccttaaa cactgccaga catatatata acatgtcaaa aaggctctga 300
 gatgatgacg gagcgagcat gcagggatat atggctacat agtctattag ttaaggactt 360
 ataaaaaaag accatgaaat gaaatcagat gaattaagct ggtgggaatg gcagcgcata 420
 agtgggccag ggaatagggc accccagacc tatgatcaag aatcacgctc agtcgaatag 480
 cgatctgaaa gaa 493

<210> 6467
 <211> 529
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h07a1

<400> 6467

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 catttcgccc catccccgaa agtcaacgta tttgcgaact tcccggcgag gaggcacgtg 120
 ggggttcgag tttcgaaacgc gctgatcgaa ccagacggag ggaagctggt ggagcttggt 180
 gtgagggata attcagaaaag agacttgaag aaggggtgagg ctctttctgt gccgaggatc 240
 aagctttcaa ggattgacct ggagtgggtc catgtcctca gcgaaggatg ggccacaccc 300
 ctcagaggct tcatgagaga agccgagttc ctccctaaacc ttcatctcaa ctctctccga 360
 ctcatgatg ggtcggctgt gaacatgtca gtgcccctcg tgctggctat tgatgatgcc 420
 cagaagcata agatcgggga taacctaaagg gttgctcttt tcgattctaa ggagaccctg 480
 ttgcaattct caatgatgtt gagatttata agcattccta agaagaaag 529

<210> 6468

<211> 473

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220079h07d1

<400> 6468

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 acaattgcac cataagtgcg agaggctgtc taatgccata catacagaga gaggcaatgt 120
 atctgtgctt gtgcctcccc agagtctttaa ttattattat tattattaaa ttgggcccagg 180
 agtatgtatc ttagcaggag aatacataaa gcttaagggt tctcccaatc atgagatata 240
 cattataata caagattaag ctggaacagc ttccggcact ttgccattgc ttgagagtac 300
 taagctatca tagtattcaa ccagtacctt ccaaccacca gggcacataa atccatcagg 360
 agggctttct ttggctcctt ccagtgtgcg catctttgtg cctgatatga acgggaagtc 420
 ctgaggcctt gaagggtcaa agaatgccat tttaccctga gtcttgatc atg 473

<210> 6469

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220079h08a1

<400> 6469

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gggcttccca gccaacggcg cctctgcggc ccagccccta aacttcctca tctacggccg   120
cacgggctgg attggcggcc tctctggctc cctctgccgg gccaggggca tctccttcca   180
ttacggctcg ggccgcctcg agaaccgggc ctccctcgaa accgacatag ccctcctcaa   240
gccctcccac gtcttcaacg ccgccggcgt cacggggccgc cccaacgtcg actggtgcga   300
gtcccacaaa gtcgagacca tccgaaccaa cgtcgtcgga accctcactc tcgccgacgt   360
ctgccgcgac cacggcctca ttctcatcaa ctacgccacc ggttgcatth tcgagtacga   420
ctccgatcac ccnctcgat cgggtatcgg cttcaaagaa accgactctc ccaatttcac   480
cggttctttt tactccaaga ccaaggcaat ggtagaggat ccgctgaaga actatgat   538

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<210> 6470

<211> 456

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220079h08d1

<400> 6470

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aaaaacgaca agaaatttat tcaatcacga gcggtaaaaa tacaacatac aaataaaaaat   60
aaggagagagt gacatctaca caaaatccac acaaacttaa atcaaacgag gacaataata   120
ataataataa taatgatgat gataaaaatg agaaaagctt gaacctttag acttgagctt   180
taaccttctg gtttggtctg aagacatact taataagaga atccttaata gacaacagtt   240
ctggaaattc cttcttcaat ttggcagcgt caagctcatt gttgctcctc ggagcaacaa   300
tcaccttggc ctgttcctga gagtgaaggt tgttcaggt gaagttcggg tcaacataat   360
ctctgtacat ctccaagatt tcattgtgac taaccactct gggtagtaa agttccagat   420
cccagtcaga ttctcttccc ccattctcaat tgaaat                                456

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<210> 6471

<211> 593

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079h09d1

<400> 6471

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gactagctga ctaactggcg gccgcccctt tctttttcaa ctatttttaa tttaactcat 120
ttcttggtga aaaaaggaca aatgacatga attagaagcg catttttatc caccacatta 180
ttgggctcag actaagcaaa cctaaaataa aaggactcac gaaatatata actataaaat 240
ctcacaaaac aatctatgca aacaaaatca cactgtctac ttaatttcta aggctctaata 300
ttaaccactt tttttgggta cttcttcata gctgcactta agcctgtata atgcaattct 360
agtaataaca gcactttgtc tgtgatgatt tgtatcttct tgatgatgga tggcaatgaa 420
atcttgata ggactttttt ctttccgaaa tgaaaatgaa ttgagcttat ctagctgtag 480
atgattttgg tactgcgttt gttgcttgaa aaatcagcct cccttgaagt attttttttag 540
gagaaccttc aaaattttgg ccacaccttg gtgaaactta agtaacttga gaa 593
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<210> 6472
 <211> 652
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079h10a1

<400> 6472

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nngnccgngg ggggggnttg ggtttgact tngttgttg aggttctgga ttctcagtgt 120
ttgcgaagcg ctgcatcatc ctttggggaa gaatggatca tcaagggcat agccagaacc 180
catctatggg ggtggttggg agtggagctc aattagcata tggttctaac ccatatcagc 240
caggccaaat aactgggcca ccgggggtctg ttgtgacatc agttggtacc attcaatcca 300
cacctgctgg agctcagcta ggacagcatc aacttgctta tcagcatatt catcagcaac 360
aacaacacca gcttcagcaa cagctccaac aattttggtc aaaccagtac caagaaattg 420
agaaggttac tgatttcaag aaccacagtc ttcccctggc aaggatcaag aagattatga 480
aggctgacga ggatgtagg atgatatcag ccgaagcacc agtcattctt gcaagggcat 540
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gtgaaatgtt catattagag ttaaccctgc gttcttggaa tcacactgaa gagaacaaaa 600
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<210> 6473
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h10d1
 <400> 6473

caagtaaaaa tcttgctatg caccagtaaa taaatattat catctgatga cctgtaaatt 60
 taaacatgaa aaataccatt ttatccagct aaatcaaaga taaggttaag ttttccttag 120
 cacattatct acatatgtta atagtctgca ttgcatgtaa actatcagct acagcttctg 180
 ctcgcaatgt agtatggatc ttcccaacca ttcagtttga cattcacaac tgattccggg 240
 gcctgggttat cttaatttcc acgacacatc agctaattgt ctggggacaa ctgtcgttgg 300
 tctggtggct gtggccacat ttgtggtgcc atgtaggggt gagactgctg agcatacatg 360
 tttgggtcca tcacaggctt acccat 386

<210> 6474
 <211> 609
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079h11a1
 <400> 6474

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 gagataggnt cgaggacaca taagtaacat aaccaatggc atcgctgca ggagccaatt 120
 atcgtattgc acgggtctct gctcatcttc ggctccaaa tttccaggaa gggagtgatg 180
 ttcttcttaa gagtgtgag tgcagagcaa aggggtggcg acctggattc aaagttgcaa 240
 ttccgggggc tgctggggga attggtcaac ccctttcttt gctgatgaag atgaacccat 300
 tggcttcagc tcttcatctt tatgatgttg tcaacacccc tgggtgtcact gctgatgtta 360
 gccacatgga cactggtgct gcggttcgtg gctttctggg gcagcaacaa cttgagagtg 420
 cactcactgg catggacttg gtaatcatc ctgctgggggt accaaggaaa cctgcgatga 480

caagagatga tgtattttaa ataatgctg gaattgagag gaccctatgt gaaggaattg 540
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 ctattgctg 609

<210> 6475
 <211> 375
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220079h11d1
 <400> 6475

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 caaaaaaaca aagctcagaa caaaaggaga aaaaaaaaaa ataaggacaa aacaaaacat 120
 tacacaagga acgaaaatat tagaaaccaa aaccatatca accttaccac aataaattgg 180
 gggagaaaaa tacaccctgc ccggaagcct tctgccccct ataaatttgc cttgttcaaa 240
 ccaattctac cattctcaat ccagggaccc aaccatttaa accctggcgc atcagcacca 300
 cctaaaccta ccttgggggc ccagaaagga aaatccctgc cccggaaatt aaaactagca 360
 cactttaata accca 375

<210> 6476
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220079h12a1
 <400> 6476

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 ttcatgctcc cgctcgagaa gaaagatgcc tatggaaggg agtggttgat ttctcttcag 120
 ccttagattc attttcaggg ctttcgcata accgacaacc aatgtggacc atagacaaag 180
 aggactattg ctatgtgggc agcatcactg agcccacctc agtacttggc tccagaagaa 240
 gccttagccc tcccacttcc tactccacaa tgtctacttg tcttggcagc agcaacaaca 300
 gcactagcaa ggggtggtggt ggcacctcag ccaacaccac caacaacgga acatcacct 360

gagactacaa catcaacaac c

381

<210> 6477
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220079h12d1

 <400> 6477

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 gttacccatc tttagatgat gggaatgggg aaaggcataa ttactacca tgttcaaagt 120
 gacatactag taatattaga actacagaat ggtagattcc aacccatgca gttaagaaaa 180
 catttggtg tggtatctcat caataagcct aaattacaca aacaattaca taaactgcaa 240
 tgtaagttac catgcacctt taaaaatata aggtaattag cttctgctgc tgctcctcag 300
 tctcagcat ctccaagtag aaactgagat gagttcttctc ttctgccagc atagaacaag 360
 tgatgaaggc tttctcttca catgaaatcc cctacagggtg ccctctgaac tagacactta 420
 gcttgag 427

<210> 6478
 <211> 522
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220080a01a1

 <400> 6478

aggggaagaga aaattaaatg atagtagaat aaagagggaa ttcaaaaaag cagtgtattc 60
 aataataatg ctctaggtaa atataaaaca gctcaggatc taaacacaca aacatggcat 120
 cttttagcac acatataaga tgaattgcaa gactatcata tctttcagga tgttcccagt 180
 tccctgttca agtagtcaat gaacattctt tttgcactat ctgcatcaga aggaggtggt 240
 ggcccactta aacttgtttg ccctgtcaat tttatgaagg tacggcgcat cctacgaagc 300
 tctggaagcc caactgacct tgaaatgtta attacaggca agtctttccc tatggaaact 360
 ccattaagtg gtcctccaag agcttgagat tgtgcttcta ctatagcatt tgtgacctct 420
 tgtgttgctt tgtccaactc atagagagaa tttgcatcag aaaaacgca ggtttgagtt 480

gcaatagttg gttgtagtat cttaacatcc ctggttttgg ag

522

<210> 6479
<211> 380
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a01d1

<400> 6479

ttcgttcttt tttttttttt tttttttgat gggagaccct accaaatatg ctttttggcg 60
tgttatgaga gtacactcgc ctagatacca tggatacggg gacacaggcc ggcacatatc 120
gcccaggcaa acttttttga tggaagatag gcaccacagg aacctggatt atgtgtccct 180
cgatatatgt ttttatcgaa caataggctg ctaatcgccg gggcatttat tgattctata 240
acctgtctgg agtcccaaaa ctgtggcaat gtttgccac cctagattca ctagagccta 300
ggaatgaacc ttatgcgcct ggggcctcac aaaaagggga actgagcggc gtgccatggt 360
atgggtggtg gattatttga 380

<210> 6480
<211> 516
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a02a1

<400> 6480

cacaaaactg tagaatatat cacaaatacc tttggaagaa cctatagttt ctcggtacat 60
aaacctcaac acgacacaac tctcactcac ccctccaagc cagtgcgaaa gcgcacccaaa 120
caaaatttca taatatggga ggaaaggaaa attaatatcc tttaaaaact aaagaataac 180
acaagaaata attaattaaa aaatgggggg aaagtgtctc ccaaaaaaaaa aaacgagaag 240
gcactcagca tcctggtaaa ggcaatggac ttctggccga cccaaacagc tccacttaaa 300
actgtgtaac aggacatttc ttcaaaaaca tacttgataa gtaaaacaag taaaataatt 360
gcataaaatt ttcaatttgc tcattgtttg cacgatcaac tccgttgagc aaatgcagat 420
aatgcatttg catgtgcagg tgggagattg ctgagaagag gttgaatttg ttgcccata 480
aatgaacata gatgagaaaa agctctgcct actaca 516

<210> 6481
<211> 477
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a02d1

<400> 6481

ggaatcaaaa ctataataat catttttcaat atttaaaatg attttttact acaacaagtg 60
tgaaaaaatt aatattttata ttatatccat tacaatacaa taatacatca ttttaaaatt 120
agtctaatat catccatgta acgacgaaca tctgatccag gaaaaatttg tctctcaagc 180
catagcctta aaatctgCGT tctagttgtg gttgctacaa gtattttaagt gtccaattcc 240
tgctgttgca tagtacgcac aagtagtgca aaaatataag caacaatacg cattcaccta 300
cgtagtcaca catgattgac aagtgagtat atgtgcgtta caagacttgc ctttaattgat 360
gaaaatactt ttttccaaat ctttgacaaa tgccttagca tgaacatcct gattttagc 420
accatttca attaaggaag atgtcattga ggcataatct tcaatagcag tggctct 477

<210> 6482
<211> 443
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a03a1

<400> 6482

aaaccgcag gggtttttata gacaccaagt tcaaaaaata tcccgtttta gttacgggg 60
ggcgaccatt tgcattgtaa ttgaaattta gagacaaaaa acctggtggt gcgaaagcaa 120
ttttacaggg gaaaaatcag gttgaacca ctattgattt tgatgaaggc tgttggcatt 180
caacttaaga acgggttttgc cgttctctct taaattttta aggggctgaa agcttgtttc 240
aagttggcta ctttcttgaa tacaatatt ttgcattgga aaaaagagag acttctctg 300
gggcccaagg gacaattcta acttcaatga atcctcactt tggggctggt catgcctgaa 360
tgtattctct aatccaaaaa acttttgagc gaacattttt gcttctttca gactcttctt 420
tatagcactt aatctacctt tgg 443

<210> 6483

<211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a03d1

<400> 6483

gtaaacaatca catgtaagta tccaatcacc attacatatc cttactctgt ggctcaatgc 60
 gcaaacaaat cccgatttag ttacaggatt tacaattaat tatacatcaa taaggatatag 120
 cgtgcttgta aactcttgag aagtaagaaa atacaattca gacataaaaa tcatatataa 180
 ctattaatctt cttaaaatta catccaaaca tggtgtataa atgtgaaacc aatcacgata 240
 atagtgaactt actatctgat ggacataaaa tgtaagcaat aaaagcctat gagagaatgg 300
 atcatctggg agactttaaa gattcaattt gagatttggc tcgaggctct ctcattctaa 360
 tgaagagtct gtattcatcg caggtcattg ctgggtagag tgagggcctt ttcgggtgta 420
 caagctcttt tattgggtct atgggtatgt cactcttggg gttgcagaaa aacgcaagag 480
 agactctctc tttatctgaa attactatca ctct 514

<210> 6484
 <211> 509
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080a04a1

<400> 6484

cggtggcatc attaacgttt tccctcctca ctctctctcc tcctctaaaa tcaactatacg 60
 gttgtaccat tcaaattaaa gattgttcga actgcagagt aaactgcagt atagagctaa 120
 taattctcag atcaacgaaa aaaagagggt tcattgtcat ggagctgaat tcacagaata 180
 gaccattttc aatcaaatta tggcctccta gtcagaacac taggcagacc cttgtggaga 240
 ggatgaccaa caatctgact actaaatctc ttttcacaca gaagtatgga actttggaca 300
 aggaagaggc tgaagagaat gcaaagagga ttgaggatgt ggcttttgct actgcgaatc 360
 tacactatga gaaagagcca gatggtgatg gaggttctgc attccagctt tatgccaaag 420
 aatgtagtaa gtcctccta gatgttctta aaagaggacc tagtaaaaag gatgatgaag 480
 tgggtgacatc ntgtaatacc acttcatct 509

<210> 6485
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220080a04d1

<400> 6485

gaaaggaaac atcgaaaaca acatttcgat aaatattgca gacattttat gtcccctcaa 60
 taattgactg ctgtcaaatt gatgcggtctt aatagttaca taaactacta cgaataanaa 120
 tgggtctaaaa accctctact gtcacgagag ttacttgccg agcagaacat gaaagaagac 180
 tgcaactgct tcagtcaatc atcaactaca aggttcttca ttttggattc gagttcatct 240
 gcaccacctt cttcatcaga ttcttcatca ttgtctattc catcagggtc attttcgtct 300
 aatggaccga gcatgtctgg agatttttta aatatatcct tcaactcatc aatgccttca 360
 tcagaaatga agttccatt aatgttcaga agtttgaaat cagccttttg caccacagtc 420
 acagccagtt gttgagcccc agccctgctt atttggttgg cacttagatc aatttccttt 480
 aattggacat 490

<210> 6486
 <211> 358
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080a05a1

<400> 6486

gtagagatgc ttacaatatc aagctgacaa gtccgttatt caaaccacca aactgcgtaa 60
 atggaaacac cgacggggcca tgcgataaaa ttcattggcg ggacgccgat atgctatttg 120
 caggcctata tcttcgtgct gtgagcgtac gaggcataaa aggttcactt cctcctcatg 180
 gagctgttca gtgtgatgag aatacaccag atggaaggaa gcttacatct gcattttaca 240
 actactttgt tgtcagactg ttatgtggag catcaattgc agaaactcaa gtggaatgga 300
 ttgaatacaa caagggattg aagtgggtgtg ataaagaatc aagtgcattc atcacctc 358

<210> 6487

<211> 364
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a05d1

<400> 6487

atcctgatat tcataatggg taatggatta atttataatt aaaactcggg acattgcacc 60
aagtaatata tagttctagt agagtgggaat agctgcacca atattgggct atgcatgttg 120
cttatggacg tgatataagt aaatgaggat ggagtagggg tcactttcta tctcactgat 180
tattatatta ttttgggcca accacaaact acctaattga agtatattga gactgcttgg 240
atgcagagta taaatgtttt acaaaagttt ttacgataga gatggagctc ttttgtggtg 300
aagaaacttt gaaaaacttt ctgaaggacg ctctactgt tatatgcaa taaacataa 360
atgc 364

<210> 6488
<211> 463
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080a06a1

<400> 6488

atgctcacia tacaagctca caagccgaca ctcaaaccac caaactgcgt aattggaaac 60
accgacagtc catgctataa aattcatggt gcggacgccg atatgctatt tgcacgcctc 120
tatcttgtgg ctctgggctg aggaggtata aaaggctcac ttctctctca tggagctgag 180
cagtttgatg agaatacacc ggaggggaagg aagcagagat ctgcattttt caactacttt 240
gttttgagcc tggcatgtgg agcattaatt gcagtaactt ttgtggtatt gattgaagac 300
aacaagggat ggaagtgggg tgtagtagtc ttaactgcat caatacttct ctccattcca 360
gttttctatt cttggctcac acaagggcag gaccatgatt ccagcaggaa gccccatcac 420
atccatgttc aaggatcttg ttgtagcaat ttgcaacaac tgc 463

<210> 6489
<211> 568
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220080a06d1

<400> 6489

ctgaactagg ttgcgttgcg ggccccagtt aagtgaactg attccagggg ctactgctc 60
 actggccggc cttcgtcctt ttttttttta aactgttcag attatattaa ctttacataa 120
 ccctgacaag taaaattact ggacaaacat tgagttctat tttacagacc catagtaacc 180
 tctaaacagc tgctgatacc agcaaataaa cgaacttggc tgatcactgt gaatgggcga 240
 agaaaaaaat tatgataggt ttccccccaa acagatgtat gatgaacact ttacctcatt 300
 catgccggcc ccacgctggc ccataatgct gacataacac tgccttcctc cgaacacgag 360
 gcacacgcta aaactgcatg gatggaactg ccattcatat tagcacatgg aggggttgca 420
 tgaaaagctg attgcctaca gggctcttat gtaataagct ttcgagacag ggaggaggga 480
 cccgagtcac caatagactt ccctaagctc agttgagata tgccaaccag tgcattccaca 540
 ttgatagggc ttttagaatg tactggag 568

<210> 6490

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080a07a1

<400> 6490

cagcttcttc cccccacaa aatccaaaaa tcagataacc cagataaaac aaacatccca 60
 aaaatcaatg aacacacaca aaaaaataat ctagggtttc tgaataataa attcgctctt 120
 gcgttttttc gattttcgtt tttttttctc tttcaacttt ttcctttccg ccaaacaaac 180
 accgttcccc ctctccatt ggccattctt tcattccaag aaagcgagaa ttcaactgtt 240
 ctcggttggt taccagctgg tgcattcttt tttcttcaat ttttttttcc ggaattcttt 300
 ttggttccta attttatcag gagaagctga attttccggg aaaatttgcg ttgttttctc 360
 ttacttgcca ccttcgccgc cggctgctac tgattcgtca acggcaactc ctacgaggtg 420
 ttttgctga tttgttgatc ctgcggagaa ggtgcttgga atagaggga gggaaaagac 480
 agagggaatt gtataataaa tcccaaattt tcaattgatg aaaatttatt gtaagtgatt 540
 ttcttt 546

<210> 6491
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a07d1

<400> 6491

aataactgag attttggata taaacattgc ataaagcgtg acaaaacttg cagcaatatg 60
 ttatatacaa gatttgtcca aagatgtacc tcgcactgaa ctccaacaaa ccatacaagt 120
 gagaatgctc gtatgtcaca tcatatccaa gtttcaccaa atcaaccaac aaattacact 180
 cattttttac gtaaatagca ataaaagaac actgcacaat acaccaattt taacgatcca 240
 tggggaaaaa tccaaatctc atcgcagtga gcgctactaa aattctagtc gctgctccca 300
 catttgacta gggaattgaa gagttaattc cacacttgca taacttgaaa tgca 354

<210> 6492
 <211> 550
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a08a1

<400> 6492

cagcttcttc cccccacaa aaacaaaaaa tcagatatcc cagataaaac aaacatccca 60
 aaaatcaatg aacacacaca aaaaaataat ctagggtttc tgaataataa attcgctctt 120
 gcgttttttc gtttgcgct attttttctc ttccaacttt ttccctttacg acaaacaaac 180
 accgttcccg ctcgtaacatt gttcattctt tcattccaag aaagcgagaa ttcaactgtt 240
 ctcggttggg taccagctgg agcatctttt ttctttcaat ttttttttcc ggaattcttt 300
 tgggctccta attttatcaa gagaagctga attttccggg aaaatttgcg ttgttttctc 360
 taccttgcca ccttcgccgc cggctgctac tgattcgaca acggcaactc ctacgaggtg 420
 ttttgctga tttgacgac ctgcggagaa ggtgcttgga atagagggaa gggaaaagac 480
 agagggaatg ttataatcac atcccaaac tccaaatgat gaaaatttat gttcgttgat 540
 ttctctttta 550

<210> 6493

<211> 486
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a08d1

<400> 6493

aataactgag attttggata taaacattgc ataaagcgtg acaaaacttg cagcaatatg 60
 ttatatacaa gatttgtcca aagatgtacc tcgcactgaa ctccaacaaa ccatacaagt 120
 gagaatgctc gtatgtcaca tcatatccaa gtttcaccaa atcaaccaac aaattacact 180
 catttttcac gtaaataagca ataaaagaac actgcacaat acaccaattt taacgatcca 240
 tgggggaaaaa tcaaaatctc atcgtaggag tgttactaaa attcagttgt tgctcccaca 300
 tttgactagg gaattgaaga gttaatccca cacttgcgta cttgaaatgc atctccatgg 360
 ccttgcacgc gttcccttgt ccaggagcat cagcaagccg acactctcaa gcggtagccc 420
 gaacatatac ttgctttggt gagctctctt tctccagaaa acaattgatg agatccactt 480
 aacaat 486

<210> 6494
 <211> 283
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a09a1

<400> 6494

ggaacatgcc atggtacata ttatgatgac agaatatccg acaatctcga ttgttcagcg 60
 gcagactaga ccgaaattga gaaagaagaa attggtcggc ccatagcact ctgtctttca 120
 gaggcacata acacagggaa aaaaagttat tgcggaccac tctcaatctg aagatgatga 180
 actgcgttca cttagcgact aggaagctga atctgttggg gaagctcagc cagatgaaca 240
 cgaccatcat gctcaaatac agctgatgaa gacaaacatc ttg 283

<210> 6495
 <211> 473
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080a09d1

<400> 6495
gaaaaaaacc tcccattagc gtaccatcta ttaacatgat cttattcagc ggaaagcagc 60
cgccattttt tcatttttta cagtggcagt gccaatggca ataataatgc atgaacaaac 120
agaaggcaga agctgcacaa ttgctaaat ctagtggttg acgtgtagag aacctcacia 180
gtatacataa agaactagct agggagaaga ttcactctgtg caagagaaga ccataaataa 240
agattacttc tgtcccatth ccattggcttc caaggttggg ctatggtaag agtaaggggt 300
aaaggtatca ccattttctcc ttggttcttg attcgtaacc cgttcctcca tggcctgccc 360
aacaggtgat tcccgattaa tgattggatt gggtcgtgat tctccattg cccggaaata 420
tgcatatgga ccccatcctt catcatatag ggcggaggga agaactgcat ata 473

<210> 6496
<211> 334
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220080a10a1

<400> 6496
atttccatct attaataaat gccgttgatt actgcctcat cagaggcgtg taccacagag 60
atctgtagcc cgagaatctt cttctggact caaatgctat tctagacggg acagattttg 120
gatagggcac gtatgcacgt caggaggatg aacttttctt cactgctgga ggaactccaa 180
actttgttgg ttccggaggcg cgtaggaga gaagtaatgt tgggtctaca tctgatatgt 240
ggcctctgtg agagattttt ttggagctga tggctgggag cttgcccttc gatgagccat 300
gatatgtgac actcaaccga aacaatggca gggg 334

<210> 6497
<211> 501
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220080a10d1

<400> 6497
aattaaggct atgaatatatt atgaataaaa gttcaaggaa atatacactc taagttttgt 60
acgatctagg ttttgttttt accctatcaa acattagagc agactctccc aactcaacat 120

gctccagttt tagctaagca cgatatcttc catgaacaaa aaaagttcct gatattcttc 180
 aacaaaaata cgtgcatgat atcttccatg catgcacatc ttgattcttc attggtttgc 240
 ttcagaatgc cacactatgt cttgcaaccc tgatgatgat gaaaagcttt tgtagaactt 300
 gtgaaactct agtgtgtcac ccccggtctt tcgcagttcc accatgtgca aggagggagc 360
 cacttcaaaa acctctgtag caactgaaag gtgacccttc ctccgctct tatcaccttg 420
 cagcttcac ttataatttc gcttgtgaac attaaatccc agaggcttcg cagcttcctc 480
 aatttttgac atgatttcat t 501

<210> 6498
 <211> 567
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080a11a1
 <400> 6498

agataaaggt ccgccttaac tggattatgt tacaggaggc ttctacagcc agaaccgaat 60
 cgcaagaac aaaaactggc tataccaagt gttgaaacgc cagaacatag tgggtggcaga 120
 tggcacaggg cagaagaaca tgccacagc aatagtcctc cataactgcg agatcatgcc 180
 ggaccctacc ctcttggcag accgcttgag cgtgaagact tacttggcca ggccatggaa 240
 ggcatctca agggcagtgt tcatcgagaa tgttatcggg gacttgattc agccagatgg 300
 ttatattcca tggaacccaa ttgaaccaa cacacaggat tgctacttcg ctgagtttgg 360
 caaactgga cccagggttcg ttgctcaagc aagagccaag tttggcaaag gtcttattag 420
 caagcaggag gctgcacaat tcaactgctga gccttggtc caagctagca cttggttgcc 480
 tgctgctggc gttccttttg atgctagctt caccaaagct taaggatccg agacaaacca 540
 gcatcttgag agttataatc ttttttt 567

<210> 6499
 <211> 256
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080a11d1
 <400> 6499

cacaagaaaa tttagagtttg acgaccttaa ccaatttcct agtctcctta ttcaaagcta 300
 gaatatttgg aggcattcag tggttggaat ttctgatgat acttttgacg tacaaactat 360
 tactcccccg atattgatta atcttcaaag tgcaaacc aa tttggaaatc ctgtactaac 420
 atagctcctg gttgacagct ctttcaatct aataacgaca cgcgt 465

<210> 6502
 <211> 531
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b01a1

<400> 6502
 gaaactcaat ccatttttta tattagaaaa tgcattggttc aattttcaag ctttaatttg 60
 gtatgtttgc ccccaaccaat agactacaat ttttgtaaca tagtatgact tgcaaacc aa 120
 ttgctacaca atgcgtgtgt tcttgctata cttccatcag ttgtctaagt caataaaaatt 180
 gatcttaaaa tctatgcaaa acttctacca atcagtacca ctgtcatgga aagtttttcc 240
 agaacctcaa gtttaggtcc atagggaaga aaaaaaagtc accaactcca taattcaagt 300
 gctcactagc aatcttaca acctggcagg aagtatttgc atgtcccaa atgacaggta 360
 ctttgaagtt catcagtgga cccaaatttg ctgcttcaac ttgagagatg gaaagaatgt 420
 gatgtgatct atgcaattgc atttgacaaa caagtgggcc atttctccat ctgaaaggca 480
 gcaaaactat cttggacctt gaccatattc aagtcagaca aaagatgtca t 531

<210> 6503
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b01d1

<400> 6503
 gggccaaaaa gctgacacaa attttccata tagaaactaa ataccctact aatccaggaa 60
 acgggaccta actagccaac attccaaaat tttggaaaat tcaaaacata aacatagtaa 120
 aagactgttc cccaatcatt gtttttaaaa acacaaaggc aaatcaataa ttaagttaga 180
 tttaatcaac tttttccatt ttgctaccct cagcatcggc atcagcatcg gcgtcctcga 240

gagggggcat gtcagcattt gcttcaccag cattttcata aatgctcagt ccaagcttca 300
gcatectgtg aatcctgttc cgaaagtgtt gggatcatca aggggtgaacc cagaagttag 360
aagagcagtc tcaaagagta ggagaacgag atccttcaca gatttgtcat 410

<210> 6504
<211> 478
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080b02a1

<400> 6504

cgggacgagt ctatcccaat tggccttctt gacgtcccat cctcctattc ggcggccgcc 60
cttttttttt tttttttact tttttctttt tttttttttt tttatttttt ttacgaccac 120
ccttttagaa caagggaagg ggtgtaaaac accaactttc cataactcaa aaaaaaaaaat 180
acctttttat tttttaccat ttgcaggaaa gcattaatct taagttgtac agaggcctta 240
aaaaaatttg gtgaaagcac tcaattggaa accaccctat gcccccttcc tgcaaaaaaat 300
atatctcttg acaccaatca ccataatgct ataaaaactt tgcgccctta tttatatgac 360
ccgcgccccga agggcatcaa acattgttta ctggaaggta ggctatgata acaataccct 420
tggacgcctc atacacgtta cctcacaac tttcaatata tacagaagcc taagcttt 478

<210> 6505
<211> 488
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080b02d1

<400> 6505

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gattttcagg aacaaaaatc tctagtcttt ggttttcata taccatcaa atatttgtgg 120
caacaatgtt cccttgctca atcagtaagc ccccaaaaca aagaaaacat tatgttctgt 180
taatgaatag taatatTTTA caaagaatta atgtacaaca acccccaaaa aatcatgatt 240
ttgaaaaaag ctggatccta ttgacgtagc aagaagacgc aggatcctgg aggcaattgc 300
aaaatgcatc ctcatccttg ggaaatgata ttggttagagg atggtcagga atgacaccaa 360

ccttggaat atctgtatgt gccggtgtct cgtagcgagc aacagtaaca accaatccag 420
 agccgtcaga gagctcaaaa actgattgga tcttcccttt tccaaatggt ggctcttcaa 480
 acaatacg 488

<210> 6506
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b03a1
 <400> 6506

attaattatt tttaattttt ttacggacac cattctcgaa aaagatttgg gatgtaaaac 60
 cccaactgtc cataactaaaa ataataaacg taccagagta ggattctata tttgcagaaa 120
 aggactaatc taaagttgta aggaacctga aaaaatttgg tgaaggcact gaaatggaac 180
 ccaacctcgg gcacttcatg caaaaactaa atcttctgat accaaacacc agaatgctat 240
 caaaactcat tgccactatt gatatgaacg gcgcccgaag ggcgcacaaa cttgtataga 300
 ggagcatcgg ctatgaaaac aaaacccgag ggcgccacat acagcgttcc actcagaact 360
 ttcaatatat cctgaagcgt aggcttatgg atatgacacg agagcacatc ca 412

<210> 6507
 <211> 476
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b03d1
 <400> 6507

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 atatatgatac attattttac catagccacg ttggagtatt tattcacaag agaatacagt 120
 tactagacac ctctctttt aatggggacg gcttggtttt ctacatagga aaaatagtaa 180
 aagaaaaggg gtaaaaaaag gggcattatt gtagttgatac attctaggct gtacaagtag 240
 gagcttttcc tgttattgag ggcttgacat tagcacattt agctgttgct gcagctccgg 300
 tgaatgggag atcaatatta gccatctcta caccctcaca tgggtgcacca ctactacaaa 360
 caagaaccac cccatcttga cgttctgaag tgcccttaat gttcttgaag gaaaccttgc 420

ttatcttgat ttttgatgga gtctgggtggg agcattgggtt ccaaggacaa tgctct 476

<210> 6508
 <211> 498
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b04a1

<400> 6508

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 tgatccaatt tctttctctc accatggatc atcgcaaacc attgttaccc acttcctctg 180
 acgatgctcc aaatccacgc actcggaagg accttgttct aatgatttgc ggcttgtttt 240
 tgctctcttc ccttggtgcc tttggagggt acagggcctc caacgcgcca catgctgacg 300
 tgtcatcgcc agcatcgaa gatgaacaac ctagtccac atcggtgcct ttacgaaat 360
 ggtacccggg ttcacggggg gtttcttctg ggggtgctgga gaagtcatca agcatgttga 420
 ttgctgctaa agatggagct tcggaagcat tttcttgga caatagcatg ctgtcgtggc 480
 agagaactgc ttttcatt 498

<210> 6509
 <211> 446
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b04d1

<400> 6509

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 aggaatgggc tttgagcaag aaccataac tttatgtgtg tttatgggaa ggtaaacaat 180
 tgatgagtac aaattgccac cccaagatgt tttccgatcc tttgtgacta caagtctttt 240
 atatccaatt taattattta ttttaattct tctgatcagg gtggaatggg cgtataaatg 300
 cagaattcat ttgcaaaca ttgagtgagg ctgtcacagt ggcctcagta gcattgttga 360
 acaagaacaa cctagcagct ccatagattg cctttgttgg ataaacccga gatgtcacia 420

ccgtgcttcc accttgagca aagctt

446

<210> 6510

<211> 392

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b05a1

<400> 6510

gtatctctct ctctgccatc tctcggaata tatttcagag ctttctaaag cctttagaat 60
tctctggaac ctttttgatc gtcgcgcgag gatcgcaatt cctccaaatc gtcgtgactc 120
gtcgttagt tccgttctaa ctgcataaac tgggttcgga agctggattc atcatcttcg 180
aacttgaact gcaatcactt gggttacttg ctcgagattt ttatcctcca tttttcgctt 240
tactcgctct cttccacctt cgatagccac actaatgtgg gatttaatta ctaatatgga 300
gtcgagaact aagagtaatc cccaattaac aagagctctt tgctatgcaa acgatggcaa 360
tcagcagga aggtcaccat ctgttatagt ca 392

<210> 6511

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b05d1

<400> 6511

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tattcacatt accagttact ggaaacactg actaaggaaa tccaacacaa aatgtgattt 120
cacaagtgga catatactct taaagactat ttgccccaac atttgctata taacttatat 180
ataggttgat aacaaaagaa caagcataga tagatttgtt ttctgtccac tagttgtgac 240
ccaaagacga ttaaagacgc gatattctgaa gcgggataga catggaaccc tcttctccca 300
tactggctg gaataaatca acctctccat atcgctcgag cacacgcatt cggcaatctt 360
tagcagccat cgttccagtg gagtatgcc catggacaga acctggatag ctcatgc 417

<210> 6512

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b06a1

<400> 6512

gttacggcac tgactcttct taagaaacac ctgttcaatt atcaagggca tgtctcagct 60
gcttttagttc ttggtggggt tgatatcact ggacctcatt tgcatactat ttatcctcat 120
gggtcaactg acaccctccc atttgctaca atgggatcag gttcacttgc tgcaatgtct 180
gtatttgagt ctaagtacaa ggaaagtttg agtagggatg aaggcattaa gctagttggt 240
gaggcgatat gtgctggtat atttaatgac ctaggaagtg gaagtaatgt tgatgtttgt 300
gtgataacca agggacataa ggaatatctc aggaaccacc ttctaccaa tcctcgtacc 360
tatgtcaatc caaaaggctt tgatttcccc aaaaagacag aggtcctctt acaaagatt 420
acaccgttga aggagaaggt ggaagtgatt gaaagagatg ctatggaaga gttacaatca 480
ttccaaaaaa aattggtgta tgagtatgaa acttgattag tgcagtggct gtgatatttg 540
attttgactt tc 552

<210> 6513

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b06d1

<400> 6513

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atTTTTTTtg gaatgattgt tactcttcca tagcatctcc ttcaatcact tccaccttct 120
ccttcaacgg tgtaatcttt gttaagagga cctctgtctt tttggggaaa tcaaagcctt 180
ttggattgac ataggtacca ggatttggtg gaagggtggt cctgagatat tccttatgtc 240
ccttgggtat cacacaaaca tcaacattac ttccacttcc taggtcatta aatataccag 300
cacatatggc ctcaacaact agcttaatgc cttcatccct actcaaactt tccttgact 360
tagactcaaa tacagacatt gcggcacggg aacc 394

<210> 6514

<211> 545

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080b07a1

<400> 6514

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gttgттаатс tgaactgaag atagagattg agggaaaacca gtagctagtг gttgtgtgtt  180
aagagtgatg gatagctccg aaatcaagtc accagcagaa ggctcccaac aggggacacc  240
aggaaattca ctgcgtagaa agaagctagc catatacttc attgagtctg aggatagaag  300
gatggccttt ggtcgtgggt acacagcagg atctacacca gttgatatcc atggcaaатс  360
cattgttgat ctttcaaaga ctggtggttg gattgctgcc ttctttatat ttggaaatga  420
aatggcagaa agaatggctt atttcggcct ttccgttaac atggtggcct ntatgtttta  480
tgtgatgcat agacctttac aagttcatcc gacgcagtca acaattttta ggaatattac  540
aagct                                         545

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<210> 6515

<211> 417

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b07d1

<400> 6515

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aaatccattg tcttatgcag aatactccct agctagtttg cgttttcaat ccctatgacg  120
acttaatatt gaaaatcttg acggtaattt ttgaccattc aagaagacta ttacaagtta  180
ttcaatggaa caaagacagc actttgtgtt ggtatgagtc gagttcctat gtagctagct  240
aggagctccc aacatatgtc atttcatgtt tctccatctc atgaacttgg tgttccctgt  300
gcttgтatct atgcgccgaa tatacgaaga tgccgaagtt gatgatgctc aaagctgtga  360
gaagccagta taagtaatca aacctgccag tgttgatgtt ttgagacaga caagatg     417

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<210> 6516

<211> 553

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b08a1

<400> 6516

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 aacccttctc ctttttagta ctgtccccag aacaagtcca tcatatacca tatggaaacc 120
 aattctagtt tcttcataca ctcaagaagaa taacaaatta atatcctaata atcatattct 180
 tgagaaagcg ttctctctat ctatatggca gccttattca tctcaaagtc caagcttcaa 240
 tccacaggac ttgttcttgt cctaaacctt tctttctttt tcttctcttg tctccttcta 300
 aagggtttatt atctccaacc tcctaataac tcgaattctc aatctaattgg cccctcaaa 360
 atcttcaacc atgcaagatt ggtcagagat gttagtgttg aaggctgcac tgacctccac 420
 aagtactcag attacgagtc aaagtgttta tatgtgaaga actatcttga ctgcagggtca 480
 aaagggtaca taaactatct ccaaattctt tattgcagct ttggaaaatt tcaaattttg 540
 ggacaaaccc tac 553

<210> 6517
 <211> 292
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b08d1

<400> 6517

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 agagacttgc ttctctagct aaaatttcac aattccaaca gccatggcta tccttatgac 120
 caaaaagcag aggtacacac tcaataggcc tgcccccaag gatttatcaa gcctcatatt 180
 cttcttaggc aaaatcacia gtgccccaaag caccctccc atcaagaaca aaagggtctc 240
 atagagtga gcggttcttag gagtgacata cgggtctgga tgctcagacc ta 292

<210> 6518
 <211> 133
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b09a1

<400> 6518

gttgacgtaa tacattggtg gcggggatca ctgccactgc acaagagtgc acggcagaga 60
tcctcatccc tcgaattatc gtgcgggctc acacgctaatac tggagacgga cagagacagg 120
gtcaactaca tat 133

<210> 6519

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080b09d1

<400> 6519

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acgatctatg ttttggtaat accctatcaa acattagagc agactctccc aactgaacat 120
gctccagatt agctaagcac gatatcttgc atgaacaaaa aaagttcctg atatcttcca 180
acaaaaatac gtgcatgata acttccatgc atgcacatct tgattcttca ttagatatgc 240
ttcagaatgc cacactatgt ctagcaaccc tgatgatgat gaaaagcttt tgtagaactc 300
gcgaaactct agtgtgtcac ccccggtctt tcgcagttcc accatgtgca aggagggagc 360
cacttcaaaa acctctgtag caactgaaag gtgacccttt cttccgctct tatcaccgtg 420
cagcttcctc ttataatttc gcttgtgaac attaaatccc agaggcttcg cagcttcctc 480
aatttt 486

<210> 6520

<211> 376

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080b10a1

<400> 6520

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acatttctgc ctataaaaaa cttccaatat atataatatt gctaaccac caccacatca 120
cacccaacag actctttata gctaaactgt caaccaatgg ctgntgtgat tgtatttttc 180

acaacagccg cctgccatgc caagccagcc cagaccttct taccttgaag gttgagcatc 240
 tggtgactta ccatataagc ctctgccatg ggctgaacct ccacagcatc tatcgaggat 300
 cacagagtta gttctaagc actaccaaag ggcctgcaa gctgaaccag ggatcttggc 360
 aacagaggca tcgggc 376

<210> 6521
 <211> 490
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b10d1
 <400> 6521

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 atagaaaaga aaagaaatta aaaacagctg attaatatac cttgtagcat catcatcatc 120
 atcataatca tcattaacct atctaataca ttattatttt cttccccctt agatcaagaa 180
 ctagaagatc cattagcacc aacaacgttc accccatcat agtgattact actcggatct 240
 tcagcgcgat cttcaccacc atcattgtta gggttttcaa aaaccttgac atcactccca 300
 tttgcatcat tatcagtaga aatattattt ttagtagtaa tattaatatc attactagta 360
 acaatattat tgttatcctt tttggcaaag gtgtttttgt tgttatgcat ccaaaccttg 420
 agaacgcttc tatcaacgcc aacttcgttg caaatttcgt gaatcaaata ctcgtcgcgc 480
 ttctgaatct 490

<210> 6522
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b11a1
 <400> 6522

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 aaataccgta taaccttcaa gaattcacca ctttcaccag gacctagagg acttgccata 120
 agaggggaatc tttatcaact agatagccct tctgttcatt agcagctatg gtatctgtca 180
 gagaaatagt gggcctttat tgtcccttca atttggatta aggccggcca tagctgtttc 240

ctctccaaaa ttggcctctg aggggacgag agacactgac cttgagtgtc agggacgacc 300
 taaattacta agccaacaga aactaaccta tgatgggtga gacatgggat tgcctcata 360
 cgatagttat tggagagaaa tcagaaa 387

<210> 6523
 <211> 482
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080b11d1
 <400> 6523

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 acacacagag gattcttctt atgctgtgta actcctggca acacttcagt atcaatgtct 180
 tcctttttca ttccttgtgg caattcccag tcaaaggaat aaagaagatt agcaagtata 240
 agatccaatg cagcaaatgc catattcata ccagggcaca atctacgacc agcaccgaat 300
 ggaataaact caaaatcttg tccataaaga tctatgtcgc aatttaaaaa cctctcaggt 360
 ataaactctt ctggatcttt ccaagcctta ggatctctat gaattgccca agcattcaca 420
 tataataatg tcttggctgg aatttcgtag ccatctaaca tgcatttttt atttgtttct 480
 ct 482

<210> 6524
 <211> 492
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080b12a1
 <400> 6524

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 taggttatca ccatatagaa agcagatgac actgtgcctg cttacttcaa cgactcacia 180
 cgataaggcc accatgaccc cagttgaaat atctgggctc aacgcgatgc gaattaacaa 240
 ctagcctacc ggggatgtca tagacactgg gctcgacaaa aatgccacta tctatgggga 300

gaagaatgat ttcacatctcg caactcagag gtgggacaca tgatgtctct cttataacca 360
 acgaggatgg tattttccag gcgaatgccg ctgatggcga aactcacggg ggagggcgtag 420
 ataatgattg cagaaagatg aaccattttg ttcaaggggtg cacgaggaag aacgagaagg 480
 atattaaagg aa 492

<210> 6525
 <211> 441
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080b12d1

<400> 6525

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 gaaaaataaa atcgcaataa aaacctattg gcacgctggt atctaaactt caaaaggggt 120
 ttgacaaaa tcaagaacaa cccatgagaa tcttctggtt aatcgacttc ctcaattttg 180
 gggccagcac cgtttccact gccagctgca ggaccatcct catccatggg tccacccgca 240
 ttaccaccag caccctggga catttttgct atgaagggtat tacaagtgtt ttccaactcc 300
 ttcacattat ccccaaattc ggcagcctta gcaagttggg ttccatctag cccttggata 360
 gcctgctcaa acgcattttc aaattttctt ttatcatcag aagacagttt ggaagcaatt 420
 ttggcatccc tgattgggggt c 441

<210> 6526
 <211> 368
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080c01a1

<400> 6526

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 aaccttaatc acccatggac tcttggaataaaa aaaagggggg ggggtgaaaaa aaacaaccga 180
 aaagcccgtg ttgggggggg cctgaagggc gagaccctt tgaatatgta gcccccggt 240
 tccccccac atgtggcaac aagtacgtgc tttcaagcca aaccatgag aggggcaagg 300

gccaaaaccc cccgttagag ggtgggcgga aaaaaaacgg aacagcgcgga gaatgggggtg 360
tacaagaa 368

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<210>      6527
<211>      439
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220080c01d1

<400>      6527
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gagattttta	ccccgggggg	gggaaaaaaa	tagttttttt	ttggggtgcg	caaaaaataag	180
gaagggggcc	cagtgatcac	aaaagacagg	gggggaaaaa	cggggggcag	ccaaaaaaaa	240
aggagatggg	aaaaatcccc	ctttaccaac	agggggaaaa	agcagaaaag	gccggccccg	300
cccccccaca	aaaagttagc	ccccctaag	ggggcaaggg	aaaccccccc	ttaaggggga	360
aaaaaaaggg	gggggggggg	gggtacaccc	ctgggggtccc	agaaaatgag	ggaaccgcga	420
agcccccccg	gattttaa					439

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<210>      6528
<211>      463
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220080c02a1

<400>      6528
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tattcacata	aaaagactaa	gctaagttgt	taggagttct	taaaaaaatt	tcttgcaagt	180
gctgtcaagg	aaccgaacct	atgtacactt	catgcaaaag	ataaaactga	ggataccaaa	240
caccacaatg	ctgtcaaaac	tcaatgccac	tattttatctg	aacggggcac	gaagggcgcc	300
caaccgtgga	tagaggaaca	tcaactctga	gaaccagacc	cgagtgccct	acattgacat	360
tacactcaga	tcttccaata	gatactgaag	cagaagctga	tggatatgtg	atgaaagcac	420

atccacaaat tacacttggg caatctctca ctgaatgaat gag

463

<210> 6529

<211> 454

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080c02d1

<400> 6529

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 caatatcctt tttggggaac caaagaattg gcggacttcg aaacaatgaa aaaagggacc 180
 tttccattta attggatttt gacaaatggg ttgtgtatth ttggccttact tttacaaaat 240
 ttggggcccg gagagtthttg aaaaaaacca tggtagatgg caggggtcaa aattgccgaa 300
 tgagatggcc ccagatttat ggggctagaa tccgatccat acttaggggg catgtgaact 360
 ttttggggga cgcttgcaat tactaaaaac cctgtthttc taattgaggg attcaatttg 420
 ctgagaaggg gtttcaaatt cagtaaaaag ttgg 454

<210> 6530

<211> 351

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080c03a1

<400> 6530

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 taatcctggc tttcaccttt gctctcttca agatccact cctcttgctc cacgggctcc 120
 agacctacat ccaccccgac tcccaacccc aatccagcaa tggcctcaga gccgccatcc 180
 gccgccccgg cagcatcgac ggctaccaac ccttgtcttc caaaaccgcc gccgaaataa 240
 aaaagcggaa caagtccaac aacaacaaca acaagtccga tttcgacgaa aacaatgctc 300
 agattthttag aatgacgctc gagcacgccc acctgcagtc ctgtttgttc a 351

<210> 6531

<211> 342

<212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c03d1

<400> 6531

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 cgttggtatac ataaaccttc ggacgtgggc aaaacgtcat agcctattaa aactcagggg 120
 gccttgcatt ttttttcatt ggtacacat gaaacgggtc cgtcctaccc ccatcccttg 180
 ttgtttcttg tgccaccttt tgtttaaatc gtgcgcactt aggtgacacc tacaggatga 240
 ccaattgtcc cggcctatgg ttcggcgga attccaaggc taagtgtttg gacatacaaa 300
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<210> 6532
 <211> 518
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c04a1

<400> 6532

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 ccgttatatt cctcctcctt gcaatattat tcactctcac accccacaag gccaacgggtg 120
 ccgcgtgtca ccctgaggaa gaagcggggc tgttgggctt aaaatacggg atccgatccg 180
 acccgccgg cctgctcaga aactggatat cgggtaccga ctgctgcaca tggaccggag 240
 tagaatgcca ctataacagc acccgggttc aaagattatt cttaacgggt caaaaacccg 300
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 tctacctcat aaacctcacc aacattgcgg gtcccttccc aaattttctt tgccaacttg 420
 caaatctgca atttatctat ctagaaaaca acaatctctc tggacgaata cccgataaca 480
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<210> 6533
 <211> 371
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080c04d1

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 taaaatcccc cactcttggg aaaactttcc cacaagggga acttaacccc ctacttttt 180
 tgacatgtgg agtcctccc ctaatccttt gctgcggggg gggcaacgtt aggccaacc 240
 acaacctttt ccaacgaggc gcctggccgg aaaaagtttt ttggggagcc gaccccaaaa 300
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 ccccccttt t 371

<210> 6534
 <211> 383
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c05a1
 <400> 6534

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 cgcgcgcgcg gcttcgttca ctgctctaga aggccaccac ttttgctggt ggcgccactg 180
 ctctgtaagc aaaggctcgtg gtcgctggac tccttacgca acaaggtag gctcagtcgc 240
 aatgggaact ggcagaactc gcacgcgaac acgctgcacc agatgaggac ctggttgatt 300
 tacggaccgc ctacatcgaa atacgcttta gattttcttt tgcttcgacg ctgttgagcg 360
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<210> 6535
 <211> 486
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c05d1
 <400> 6535

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aataatacat catttttaaaa ttagtctaata atcatccatg taacgacgaa catctgatcc 180
 aggaaaaatt tgtctctcaa gccatagcct taaaatctgc gttctagtgtg tgggtgctac 240
 aagtatttaa gtgtccaatt cctgctgttg catagtacgc acaagtagtg caaaaatata 300
 agcaacaata cgcattcacc tacgtagtca cacatgattg acaagtgagt atatgtgcgt 360
 tacaagactt gccttaattg atgaaaatac ttttttccaa atctttgaca aatgccttag 420
 catgaacatc ctgatttgta gcacccattt caattaagga agatgtcatt gaggcataat 480
 cttaat 486

<210> 6536
 <211> 478
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c06a1
 <400> 6536

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 ggggtggcta atgctgtggc caacacttcc aacaaatttg atcaactctt ccaaccaagc 180
 tgggcttttg accacttcat tcatgaaggg gatctctca aactcaaact agacaatttt 240
 tccggcgctg gttgtacttc caagagcaag tatatgtttg ggaaagtcac catccatctt 300
 aagctggagg aagggtgactc tgctggaaca gtcactgctt tctatatgtc atcggacggt 360
 ccaaaccaca acgagtttga ttatgagttt ctaggcaaca ccacggcgga accatactct 420
 gtccaaatcc atgtgtatgt taacggcgtg ggcaacaggg agcaaaggct caaccttt 478

<210> 6537
 <211> 432
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c06d1
 <400> 6537

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 gtgaattttt ttttttaatt tttatttttt ggggggacaa aaaaaaaaaac ccacaaaata 120

tattcccccc cccgccttaa aaataaaatg gaagggggga aaaaccccct tcccctctct 180
 gttttccaac ctttaaaaaa aacccccccc ccaagaaaag gggaatatat tccccaaccc 240
 cccacaatt ttgggcctta actaaaaaat aaaccacag gggggaaaaa aaaaaaaaaa 300
 aactttgaaa gtttgacggg gaacccccaa cggggcgctt ttgggtaaag gggccattac 360
 cggggggggg ggccaaaaaa aggggggggtg ttgaccact tcgaaaaaac cccctggggg 420
 caaaaccccc cc 432

<210> 6538
 <211> 538
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080c07a1
 <400> 6538

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 tctcataaaa ctgttggtcca aactcatggt ttgagtggat tatgttgaat gttactaagg 180
 atattcatgt agataattgg agttacattg gttgagctgg ctggtgatgc aaatgggtta 240
 ctagttaaatt ggagtctggt tcagtggaaa tacattggta gaaaagatag cttaacatta 300
 tttttaagta tctcatccta gtgtgaagga gggtagtgcg gtaccgtcac atatgcacaa 360
 aagtcaggac catagattgt caatatttag tggctgcctc atgacanaca actctgcatt 420
 atattcagtt gtttaaaagc acgtgtagtg attgtggcac taactaacta agcatgcttt 480
 tntttgagaa ttactatattt gaggcattac cttctcttag cattacattt atgggtcac 538

<210> 6539
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c07d1
 <400> 6539

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gtagtcggcc ttcgtccttt ttttttttga aaggaaacat ttaatacaac attttgataa 120
 atatggcaaa aattctatgt cccctcaata attgactgat ggaaatagat gcgtcttaat 180
 agttacatga accagcccca aatggcttgg tttaaaaacc ctctactgac acgagagata 240
 cttgctgacc ataacatgaa agaagactgc aactgcttca ttcaatcacc gactacacgg 300
 ttcttcattg tggattcgag atgatctgca ccaccttctt catcagaggg tagataattg 360
 cctataccat gggggggaga atcgtctaata ggaccgtgca tgtctggaga ttttttaaata 420
 atatacttca actggtcaat ggcttcatca gaaacgaagt tcccattaat 470

<210> 6540
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c08a1
 <400> 6540

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 ggttcttctt ctctccgga cactagcaag agcataaagc tagagcgata caacagctac 120
 atcaggagac tcaacagcac caaactctc aacgcctcct ccaaactcct gttccgtgcc 180
 actatcttag tcgcaactcat cctcgtcttc ctcttccact tcaactaccc tcccctcgcc 240
 ccgacttca cctaccaccg acacctacac tccactccc acttgccttc ctactcctcc 300
 tccttcgcct cctggggagaa gcaggctcgt cactcctcca cccctcgccg ccccaacggc 360
 cttaccgtcc tcgtcaccgg cgccgctggc ttctgctggca gccactgctc ccttgccctc 420
 aaaaaacgcg gcgacggcgt tctcgggctc gacaacttca acagctacta cgatcccttc 480
 c 481

<210> 6541
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c08d1
 <400> 6541

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accctgcatt attacacctt tctttgtctt tccttacaga tctacattac attacattac 120
 atacactgcc ttgctgcttt tgctttctgt ttgtttccct gacattcata tatgcatata 180
 tatccctcat ctatatatac ccgatattta tattatgtat aactgctaca ccaacatgca 240
 tttggatcca tggacacgga ccaccacact tattaagaaa aaataatagt aataacttgac 300
 gagacaacaa gaaaaatgtt ccaaggtagg catccgaata ttccgttttg ctttgttcct 360
 tgaaaaaaca aaa 373

<210> 6542
 <211> 481
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c09d1
 <400> 6542

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 cataacaaac aggctagcat atagaaagat aatcctaaca gtaagtttta catataatac 120
 acgtgataat gagaattgag aagaactgat ttcaatattt tactaaaact atgctaacca 180
 aactacattt acattacttt tttgccctaa attacactct taaatataat aatagtaaag 240
 ccatgagcaa cagcattgat catagccctc ccaaaaattc agcacggagc tatagagaag 300
 ccataaaat gttgactccg tttatcaaaa tgttgacact acaatcttct tcaccttgct 360
 caacaaaagt agttaagata acacaaagct ggagctgcta tcagaatcag attcgcttg 420
 ttgtggtgat ttagtgcca aggtgagcca tggcttggat tcagctagct tattaagggc 480
 t 481

<210> 6543
 <211> 537
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c10a1
 <400> 6543

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 agtctcgccc tacaagagct caaacattta cataaccctg atcctacctt cacaccatga 120

atgaaggtac acgctctcaa atctactcca ggggatgtga ataataaagt cgctcttgcg 180
 tgatgtggag gctccgtttg aggtgtctgt caactttgga ctttccgtca aacaaacacc 240
 aggtccgctg ctgcgttggc attctttcat ttcaggaaag cgagaactta tctgcttttg 300
 gatagagacc agctggggca ttggtttttc ttcaattatc gaatacggga tgggttatgg 360
 ttacatagca gtatcaggac aagctgagtg tctctggaaa aacagccacg gtctatcttt 420
 cttgcgacct ggggcctcgg ctgctactga tacgctcacg gctactccga cgctgtggtg 480
 gggctgattt tgctctcctg ccgaaaaggt tcttggaatt gagggagggg aaaagac 537

<210> 6544
 <211> 418
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c10d1
 <400> 6544

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 ctaaccccg gcatgacata aaatccgcgg gcgaatgaca attgagagga actcaatcca 120
 aggggtactg ctcacctgct taaagcacia cggtgacaac aataatcacg actgcagata 180
 cctctgaaaa atcataaaag taaacgcatg gacaggcaaa ccgctagcac ggctacgggg 240
 accaatctcc gtagctatat agaagcccat aagcatgaca attgagtgtg acaaattgct 300
 gacactggaa ctttatgcag ggaggcctca tgggaaacgt gaagcacaca tggaaggagc 360
 tgaaatcagg gacacattcg gcacccaagg gagattgacc agcccagggg agccaagg 418

<210> 6545
 <211> 313
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c11a1
 <400> 6545

atacagtcgt taatcctagc ttcttcaact cctcgctggc aacaacagca gcactaccat 60
 gagccgtggt cttcaaactg gactatcgag aattaccgat gggaaatgaa agaggaggat 120
 tcaagggatt catgagcgct tggagcgtgc cgaccaatcc gtgcgatacc tgcaagctgg 180

cctcggcggc actcttctgc cgccccgaac tcatgatttc tgtgcgtcgg ctgcgagtcc 240
 aacattgact ggacgatcaa actcgcgacg agccaccagc gcatgttgat gtgttaagag 300
 tgccagcact cac 313

<210> 6546
 <211> 416
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c11d1
 <400> 6546

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 gatccgggat ctggctgata gaaaaaagaa ctttttatac taaaaaaaga cggaaggcaa 120
 ggcattgaaa agagtttacc gccagatttc taattctaca cggggggaat atgaaaccgc 180
 agcccccttt taaaagtttt tttttttttt tttataaaaa ggaaacgggc ttttttggtc 240
 gatcgaaaca aattttccca ataatgttcc cccatggggc tccagctaaa aatcacgttc 300
 gtaccgattc gatttttgac ctttttcccc taacaatccc acagaatcgg taatcattat 360
 cctaagattc atgcactcca tgggttcttc attttgaaat taactaaacc gatggt 416

<210> 6547
 <211> 524
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080c12a1
 <400> 6547

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 tgacgggaaa ccttggggag ggctttaatg gagctgatct tcgaaatgtg tgcacggaag 180
 ctggaatggc agcaattcgt gcagaacgtg attatgtgat ccatgaagat tttatgaagg 240
 ctgttagaaa actgaatgat gcaaagaaac tcgaatccag tgctcactac agtgctgatt 300
 ttggcaaaga ctaaaagcta ttataaaatt ctgagccatg gatatttagg gaaaacttca 360
 tgcaattagg ttaactcaga cgggtctgacc ttaagatgaa gtggtctctt ttagctatgc 420

0953143.03200

cttctattgt tcgacttatg cagctccata gagaagatgt ttagttgaat catttgcccta 480
agctaattga attattatta ttcttgattt ctctgggatt atgc 524

<210> 6548
<211> 480
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080c12d1

<400> 6548

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cataatccca aagaaaacaa aaataataat aattcaatta gcttaggcaa atgattcaac 180
taaacatctt ctctatggaa ctgcataagt cggacaatag aaggcatagc taaaagagac 240
cacttcatct taaggtcaga cegtctgagt taacctaat gcataagatt ttccttagat 300
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gcactggatt cgagtttctt tgcatacttc agttttctaa cagccttcat aaaatcttca 420
tggatcacat aatcacgttc tgcacgaatt gctgccattc cagcttccgt gcacacattt 480

<210> 6549
<211> 392
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080d01a1

<400> 6549

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aggactctct ttctatgaaa ttcctatat ttaggggcac aattaattag cgtgggtaaa 180
caaaaaacag aaattacata aacagtgaac caaaataagt taaaataact gtagagagag 240
atagaaatag ctagtatagg caacgatatc tacaccgtct ctgcctcttt tcgcacgttt 300
tactaatttt acacgtaaaa tatagagaga tagagattga ggcaacaaca ctgatcttcc 360
aattccatca aacttcgcaa ctcaccctct cc 392

<210> 6550
 <211> 390
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d01d1

<400> 6550

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 gatttgtaaa cttggccaaa agggaccctt gggaacccaa caggccaatg cccaaccctt 120
 tttgggggga ggggtcccccc cccattttttt cttttcacgg agaatttggg' gggggggccc 180
 aaaaaagccg gttcctcccc ggcctaattt ttaaaaacaa cccccccctg atttgtcccg 240
 gtcgtggcct tcaaaaaatg ggggggtttt ggggccccat caggggccggg ggggttcccc 300
 ttgggggctc ccaaagttgc ctagggaata acctgggttt taacgaaagg gggctccggg 360
 gcctttttga aacttttttt tttccccccc 390

<210> 6551
 <211> 334
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d02a1

<400> 6551

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 cttgttatta tgaacgggcc ctaaaaatat acgccggaat gatcctcgca gcataaaaaa 120
 aaaaaacgaa cttttaaaca gaatccttcc cttcagatgg gaaatctttt ttttcccaaa 180
 tattccaaac ccattgaaca acccatgcta tactatttat aaagtgaacc gagaagtcag 240
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 gaggtgggga tcccgtttta ggtcctaata catg 334

<210> 6552
 <211> 463
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080d02d1

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 aaagggttg gttatggaaa taataacaat gtgaagaatg aagaccccc ccataatgta 240
 tggcactctc tagctagtaa cgcgtgaact gaatgaacta tactcagaaa catgcctgcc 300
 ctatttgaac agggggatca gagagggatc catagagaat tcttttagca acccattgat 360
 ttgctgcttg agagaagtgt atgccatccc aactaacatg ttgggaagga tttttgcatg 420
 gatttccata tactggtcca tttact 446

<210> 6555
 <211> 371
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d04a1
 <400> 6555

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 tgatccagag tgcacttcga ccactagctt actcggaacg tatggcatgc tttgggtgg 120
 aaacatgtgg ggctgaagag gaccaccctc ctttcatgca gactttatcg acttgtgtca 180
 gaagggtgga gacgcttcca aaaaagcatg attttccctt gccacctctg acatcgatgt 240
 ctctggcgcg agcgctgaaa gcgctccaaa gaggctaacc ttcgaagaaa tgcataaggag 300
 gacctacttg ggagtgaacg ggaccggctc aacaaacctt tgttcaacga tcggtggtgg 360
 gtcggactca t 371

<210> 6556
 <211> 519
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d04d1
 <400> 6556

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 actagctcag tggtcggcgg tcgccctttt tttttttttt tttttttttt tttttttttt 120
 ttttggccaa aaagctgaca caaatTTTcc atatagaaac taaataccct tctaattccag 180
 gaaacggggc ctaactagcc aacattccaa aatttggaat attcaaaaaca taaacatggt 240

aaaagactgt tccccaatca ttgttttttaa aaacacaaag gccaatcaat aattaaggta 300
gatttaatca acttcttcca ttttgggtacc ctcaacatcg gcatcagcat cggggtcctc 360
gagagggggc atgtgagcat ttggtttacc agcatcttta tcaatgctca gtccaagctt 420
cagcatcctg tgaatcctgt taccgaaagt gttgggatca tcaagggtga acccagaagt 480
ttgaagagcc gtctcaaaga gtgggagaac gagatcctt 519

<210> 6557
<211> 531
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220080d05a1
<400> 6557

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tatctgaaaa tgggtcttgc aagaccttgc aagaactttg ggatggagac gtttaagtat 180
tttttcaagg ataaaactat ggtttgggat ataaactatg aaaataagca agattcgaat 240
tccatgttat taagatgtct tgcattatta ttatcattat ggctggctat aactttatat 300
aaggacctgg atggccttag tatttatctt acaagtgcc ttgattgaga ccttgagttg 360
aataagagtg tggcatgttt atcattggag tgagggtgtg gtgcctcttc cattccatgg 420
aaacataaaa gatattatatt tgtcatcaat gcataccatg accaccaacc atactgcact 480
aacattctat gctaattgtt atggattttg cttagcttct tgcggcatct t 531

<210> 6558
<211> 503
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220080d05d1
<400> 6558

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tacacacatt cgtagaaggt tttctttgcc catgttgctg tgattttagt gaacaaaaaac 180

aaatatat tggttataat atacatgcaa aggatgaggg gccacaacgt tactttgatg 240
 attaacatgc cccactataa aaataatata tgtttttctg atagggactt gtgatattta 300
 acctaaaggt aatgtgcaac aacccccaaa aaatcatgaa tcttaaaaaa gctggatcct 360
 attgacgtat caagaacacg cgagatcctg gaggctaata caaaatgcat acttatcctt 420
 gggaaatgat attgcttgag gaaggcttag aatgacacca accttgggaa tttccgggtg 480
 tgcgggtgac ccgtttcgag aaa 503

<210> 6559
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d06a1
 <400> 6559

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 tcagtccttc agggctatcc ctgttctcgt aaatgccaac taattcaaca tcatctgtat 120
 gttggcatgc cattccatgt accttttctc cagaaacagc aaacagaagc ttgattcttt 180
 ggtttgaatg tttctcgtat gtgctagctt tgatccagct tgtttcttcc agcctgggtt 240
 taggataaat aaataaccag gctttgagta acatgatgat catttattat gtttattaat 300
 tgttgcagaa gataggagtc gtctgagtgt aactttaatc tagctagttt gatttggctt 360
 gtagtgcttc tttgtgttag cctttgtatg ggatgtaaaa cagtgtcctc ttgaaggaaa 420
 gaaaaaaaaat agttgttctc tatcgtttc 449

<210> 6560
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d06d1
 <400> 6560

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 tgaaaacaat acaaaggcat acacaatgag gcacatacca gccaaaccaa acttgctaaa 120
 atagaagata ctcacacac gacaccacaa acatgtgaca catgaaaaac atgtttattg 180

agccatatgc tacaaaaagg cgggctatct atggatgcta cacccattct agaggacaca 240
 agctggtgca gcgttggtccc ctccaagaga gcttaaactct aagcaacaat acgcattcac 300
 ctacgtatct cacaaaagag ggacaaggga tggatgccc acatacagac taggcttaat 360
 tgatgaaaa 369

<210> 6561
 <211> 322
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d07a1

<400> 6561
 gggaaaaccc gcgatctgag cttctcttcc aggcctttgt tcttgggccc tataaagctg 60
 tgttacgact gtteggacat ggctttcgca cccttcgggc tggactggag cgacatgtac 120
 aaactgtgac tcgaccacct cttaatcgcg caccgcgttt ggacctttct atcaattgcc 180
 gataacgagg ttgcacacat ggttcggaaa ctgttggaa acgaatcttc tggttctgcc 240
 gagaacttga ccgaaactgt gatgtctatt acgaactcta tgatatgtac aattgcttct 300
 gcgaaaagtt acgggagaag ag 322

<210> 6562
 <211> 433
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d07d1

<400> 6562
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 acacgggata ttaacaactt tcttgccgct tacatagaaa gcaccaacag catgacagca 120
 cgtgcacttc cttgccagct aggaagatg actggtttcg tgcacaggat atacgcggta 180
 taaatcgct agccaacat acacgcttgt cgaaccatgg agaacacctg cactaaaacg 240
 ccgagtgagt gattggacag agaccacctc acctatctag aaccgatgtg cgaatgcaga 300
 caccatttgc ctacaaaaac gagcggcgcc acctgtggcc aaagattccc cttctaaggc 360
 aaacgaccta tcaagaacat ggctgctga gttgggaaac tctgctagg tctcccagc 420

tcttttgattg ggc

433

<210> 6563
 <211> 483
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220080d08a1

 <400> 6563

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 atctttctcct gcagtgtcat atgcatctgc tccatttgaa taccctgtct tcccttttaa 120
 ttccagcttt cctcttccat cagcttcttt ttcttctgga tcaactactt atgtatatcc 180
 aacatcaggc aatcagcttt gctttcctgc ggtaaattca cagttaatgg ggccctgctgg 240
 tgcaatttca tctcattatc ccaggccttt agttggtggc cttgcaaaaag gtagcaatag 300
 tggtagtgcc gagaccagta gaaaatgggc aaggctgggt ttaaactctta atgcaggacc 360
 tggaagttca gatgtggatg ggagagactg gaattctcct ttttcatcta ggcaactttc 420
 tgttgctagt tcacaggccc tagctgagga gcaagtaagg ggccaactgg ctgggttatgt 480
 tcg 483

<210> 6564
 <211> 366
 <212> DNA
 <213> Glycine max

 <223> Clone ID: jC-gmf102220080d08d1

 <400> 6564

ctcaatgaag atgggacaga agaccgcca cagagaaatg gcaatagcat ttattccttt 60
 atcatttaaa tatatttctt aacgaaaaaa gtaacccct cactgaatta catgggcttg 120
 acacaggata tattttcaga tcctctccca caagtgacaa agtggttaca acatttgatt 180
 attcaaatct aaacacttac aagcggttgt ggtcattaaa ttgtatgatt atatattctg 240
 ctattgccat gaggattggt tgtggccatc ccaccacca tcaggctcct tcctgttacg 300
 aacactacca gccagctgga cccttacttg ctctcagat aaggcctgtg aactagcaac 360
 agaaag 366

<210> 6565
 <211> 399
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d09a1

<400> 6565

cttctaattct ttacacgtca ttattctaaa cttgcagatg ttcacatgcc aagcaagatg 60
 aaggggacgt taatgtttct ggcgctgctc ctttgagcca cctttcatgt ctctttctcc 120
 attgactgac ggcttagagg cgacggcagc tacgagctgg gtccgaagcc ctacaccctg 180
 aaaggaactg tggatgatcg cgacagccac tacatcccag aatgggagac ctttggtctc 240
 gacgagtaca tatagtacgg cctgaagcac accgacatgc tgctcttggg ccccgaaagg 300
 gcctgacgag agcgccctcag gaacgaagcc ttcattagtc catgagcaat gtgatctatg 360
 gcatggactc ctacatcaac tgcattggagg ccagcacct 399

<210> 6566
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080d09d1

<400> 6566

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 catgaaagga gttatagaaa cacgccaccg tatatatact atacgtctat agatgatact 120
 tgnatatac acttattttt ttcattttta aatgaaatca aactcgttac ctctcaagcc 180
 tctaaagaaa aaaaatagaa aataagaagc attcttaatt attctcctaa ctatatataa 240
 aatcaaaggc ttagaaccac tatatataat actttgattc attagcctca caccctagca 300
 agcccaaatt cctcatcat ggtttacgca ggctcaccaa cttgacatca tcaatcacag 360
 gccacagag tgaagaaaag tcatcacttc tcatgggtga gaatgtgcta aggaacatga 420
 ttcttggtct aggggtaaca gccacaaact tgagtgtgc acgtttgaac cctcctttgc 480
 ctttgac 488

<210> 6567
 <211> 504
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d10a1

<400> 6567

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 tcggattgtg ggtcttgctt ttcataatatt aaagtcactg ttcccaaccc tttttatttt 120
 acatcgcaat ttcattactg attagtgtac agtgtatagc tggacccatg accctatcca 180
 tgcacgtgag agttgttaat cctgactgaa tatagagatt gaggaacacc agtcgctatt 240
 ggttgcgtgt tcagagtgat ggatatctcc agaatgcagt caccacaga aggctaccaa 300
 caggggacac cgggatattc actgcctaaa aagaagcctt ccatatactt cattgagtct 360
 gaagatagaa agatgggctt tggctcggtg tacacagcag gatctacacc tgttgatctc 420
 catggcaact ccattgttga tctgtcaaag actgggtgggt ggattgctgc cttctttata 480
 tttggaaatg aaatggcaca aaga 504

<210> 6568
 <211> 347
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d10d1

<400> 6568

atattataaa aacaaagttg ggaaatatgt atattagtta cgaaccattt atcccgagga 60
 cattaacgga ggcgttgaca catgccacga gatataact agacggctgt acatgatact 120
 cagtatacac agtgattcgt tggatatcta catgaacaca aactcgtgac cttgcaagcc 180
 tatcaagata aacgctaggt ataagaactc aatcttagtc attgtagcta acgatatatg 240
 aagctccaag gctcagaacc catgtatagg atacttggat acattgacct cagaccctag 300
 caagcccaaa acatgttatc atgggttacc caagctcacc gacttga 347

<210> 6569
 <211> 73
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080d11a1

<400> 6569

attgtgcttc ttgatatgct agctaacggt cgcacattat atacacaaa gtgggtgatt 60
gtgacgagca cct 73

<210> 6570

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080d11d1

<400> 6570

aatcaaagca attttaaaaa ttttcattaa aaatatttcc ggtagacctc caaagataaa 60
tacaaagaat aacaaattgt ctacggacta tgaccctcat catcacactc tttaacagga 120
ctcaattgat gatgcatgga tatgtgtttg tgtaatttca attaagcctt catgaagcta 180
aatgctgtgag gaacacggag agctttcaac cagtcgcttt caccgttggc tccagcctgt 240
aggaactggg caggggtgaa ttgggtagct tggtcgcggc taataagacc acggtaaccc 300
ttccacttga tccttccgtt aacgttggca ccaggcccat agctgtggga ttcagcctag 360
tccaaggggt cttcgaagtg tccaccggcc catgggcacc atccttcggg gtgaaggaag 420
tcaccacagg tggattccat cacaaccgac cttgagaatt gct 463

<210> 6571

<211> 515

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080d12a1

<400> 6571

ctcatggggt tacaatgcaa aaagttacaa agggatcgca ttttctttgc taataagaca 60
tatgttccaa atgaaactcc aactccacta gtgaagtaca gaaaagaaga attggaaaat 120
ctaagaggag atgggaaaag gagagcgcaa ggaatatgat aggatctatg attatgatgt 180
ctataatgat ttgggtaacc cagacaagag caatgatcta gctcgtcctg ttcttggagg 240
gtctagtgcc tatccatatc ctgcgagggg aagaactggt agaaaaccaa caacaaaaga 300

ctctaagagt gagtcacccat ccagcagcac ctacatccca agagatgaga acttttgggtca 360
 cttgaagtca tcagattttcc ttacatatgg aataaaattc atagctcaaa ccgtttttacc 420
 tacatttcaa tctgcatttg gtttaaattgc cgagtttgat aggtttgacg acgtgcgtgg 480
 acttcttgaa ggtggaattc atctccctac agatg 515

<210> 6572
 <211> 455
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080d12d1
 <400> 6572

gacatagaga aatttgattt gacattcata gatcagaata tcagacttac atacgggtga 60
 acatgatacy ggtgaacatg ataggagcac aatactatac ataaaaactg acacaacacc 120
 ctattagata tgaaaaacta gatagcatcc aattacaaaa cttaagcata cataagaaaa 180
 ttatgcacac ataagtttgc acgtttatgt gtcaatgaga ggtacgttgg aaggaaagaa 240
 aaccacacac cacacaccac acactctcat tagatagaga tgctgttggg aattcctctg 300
 aaagtaaggc cttccccact ggtaggaaga agcacagtgt agggcatctg cgccgggtcca 360
 ttacggttcc taaggcttga attcttggtc ctccctgaga ttttgcctc aatttccttc 420
 agcttgtttc caaacttctt aaaggcttga attgc 455

<210> 6573
 <211> 387
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080e01a1
 <400> 6573

aaaataactt aataaaaaac tacgtatact gaatttctga aatacataaa aactgtagat 60
 acagtataaa tataaaataa aaacacgatt ttttaattgtg tgcgctgaac cacgtctaaa 120
 cttgctgtat tacaaaacgc gtgaggtcat cctcaatggc agataacaga aaacttatca 180
 attgaattgc aaattgaact cgaaccacaa gtgaaacctt gaaaatagga aagggtcaaat 240
 agaaaatatt ggggttggct gtttgctggg gttctcaaca agaatttcca gcgagggaaa 300

aactagcttc taaaaatccc tttggaataa tggtaaactg ataaattatg gttaacggaa 360
 ttaatgccaa aggggattgc ttaaaaa 387

<210> 6574
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080e01d1
 <400> 6574

ccaaatcaaa taaggacgtt tgactattgg cagtttttcc atgtaatctt caggacagca 60
 tgatttacia taggtaaaat ccagagctac cccaatgttc atggatttca ctcttcatag 120
 ccatcttgac aagttgctca ttaccttatt accacttagt aactaagca gacagatctt 180
 tgagagcatg tttatgatac ataagctggg agttgttggg aatagtagtc tcctgagaaa 240
 gaaacatcac tacacacagt aatccatggg ggagcataca atatacgagc attcttaatg 300
 gaaaaacat taaaaattgg caggggaatt cctctcaata actgagagtt taggtatggg 360
 atgaggacag tcttgaggac ggttgatgac actgactgaa tcaaattcat gtgcaggttc 420
 cctattttac tccattt 437

<210> 6575
 <211> 497
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080e02a1
 <400> 6575

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 aaaagaaaag attagacctt acaaggtaat tacatcaacg attttaaata aattcttctg 120
 gttegtttgt acaaaaattc aatgggcaac tcccggtaca attgccaata tacattttga 180
 ccaacctcgc cacccttcaa atcctctaaa tgaggaacac aaaattgggt atgcagcaat 240
 ctcttaaatg gtagttgaag agtgagtcac cattaataag attctaagtc tgagcatgtt 300
 atgtgcctag ttttacaaga caactacact caatattaaa gtaagaatca cagagcttgt 360
 aaaaaatcca ccattgtaat attgtgtcaa gcaccctgaa tttgtggaat tggtagatgg 420

agccaatgct gtgccattta cgctggtaac atttttacca ccacttcctg gaaatataca 480
ggaaccatga ctcgggt 497

<210> 6576
<211> 568
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220080e02d1

<400> 6576

gtcaaactgc acaatcaaca ttaactttac ataaccctga caaataaaat cactggacaa 60
acataaagtt ttagtttaga gacccaaagt aactcctaga cgctactgct accagcaaatt 120
aaacaaacta ggtaatcac tgtgaatggg caaagaaaaa aattatntag gttacccac 180
aaacagatgt atgatgaaca caagaccaca ttcattgcagg cccaagttg atccataatg 240
ctcacataac aatcccttcc tcggaacacg aggacacgc ttaaactgca tggatggcac 300
tgccattcat atcaccacat gttgggtgtg catgaaaagc tgattgtcta gagggctcctt 360
cttcaataag ttttcgagac aggggtggagg gacccgagtc accaatagac tcccctaaac 420
tcagttttga tatgccaacc agttcatcaa cattgatagg gcttttagaa tgtactgcag 480
ttggtttcag cacttcatgt gtttctcct tcttgggtggg ctctggactg tattctgacc 540
aatanggcag aggaaacggg aacactgg 568

<210> 6577
<211> 387
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080e03a1

<400> 6577

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ccagtacaag attactggat atttcatctt ttcttgcat gttggagctc ttgggtggcg 120
tctatttggc tatgatcttg gtgtttcagg tggagttacc tacatggatg atttctcat 180
acaattcttc ccaaaggtgt gtgaaaagaa gcatgcacat cttgcggaga cagattattg 240

taaatatgat gatcagatat tgacactctt tacttcatct ctatactttg ctgcccttgt 300
gtccacgttt ggtgcttcca gtgtaacaaa caccaaaggc aggaaagcta gcatcttagc 360
tggatccgta agctacttta taggagc 387

<210> 6578
<211> 431
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080e03d1

<400> 6578

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ggtttttgta ttctgtgttc attgtttttt ttactatttt ttttctattt caattatgca 120
aaaaaaaaac ccgtgggagg ggcgtctcac cttctggagg ggaaaaagac cagagcacac 180
gggactgggg gggggggccc caacccaatg aagaattggg ggcaaacggg gtttccggca 240
actcgagaa ccggggaggg gaccaaacc cccgggggtt ttaccctcc ggggtccgaa 300
ggggggggcc aaaccggggg gcccccccag aattgcgccc actgcaaaga gcggccccga 360
cggcaggaag gaaaagaagc cgaggctcga ttgaacctct ttacgggcac gcaaggggga 420
tataccccca a 431

<210> 6579
<211> 437
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080e04a1

<400> 6579

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ggggacacac attcaatttg taaaggacca tactccaatc ttgctgtacc catggttgta 120
ttggcaacag ggcttggtat aggaggtggg gtgctggaaa agccaattat tgaaaaagtc 180
accctggcc gtgagtgtga attcgattta aagaaatcac gggaatcggc accgccttat 240
catgttatat tgcacaacga caactttaat aaacgggaat acgtggtcca agtgctgatg 300
aaggtcatac ctggaatgac ccttgataat gcagttgata tcatgcaaga cgcacactac 360

agtggattgt cagtggatgat catctgtgac caagccgatg ctgaagatca ctgcatgcag 420
ctaagaggct atggatt 437

<210> 6580
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220080e04d1

<400> 6580

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ggtttctcta aggccttcat gaggagggaa cttatgtaca cctgcaaata gttccatctc 180
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atgtgcaggt tcaattgaac tgagcaatcc attgcctctt agctgcatgc agtgatcttc 300
agcatcggct tggtcacaga tgatcaccac tgacaatcca ttgtagtgtg cttcttgcac 360
gatattaact gcattatcaa gggtcattcc agggatgacc ttcacataca cttgga 416

<210> 6581
<211> 566
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080e05a1

<400> 6581

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cacttcttct tctggcggag gtggggccca tggctgaggc tgtgacatgc accccaacag 120
agttgagtcc gtgtcttcca gcaatcactt ccggtgctaa accttccaat gcttgttgca 180
cgaagctgaa gcagcaaaaa ccatgcttat gtggctacct caaaaacgct agcttgaagc 240
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cttgtaatt aattaagcct tcttataatt aaagtgtggg atatatatat atatatagat 360
aaacagttta atttatacac actttgatcc taaaaagcat cttgacacaa gcattcaata 420
ggatttcacc actttatcgc aacattttta catgatgcgg taataaagta aattcttggt 480

gaatatttgg ataacgatgt tatatactca tagtttgtgt gtataacata aacttatatt 540

tattatgtac tctatatatg ccactc 566

<210> 6582

<211> 401

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e05d1

<400> 6582

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ggacgtgtcc aatctagaca gcatttataa agatttgaga aattcttaac catattcatg 120

gtagatgact gcttcccatg tattgtatgt taaaaccaac ggggcgagac atatattgag 180

ttaaataaa ataacttttt aaattttgca cccctactat taggatttaa catcggtgtc 240

ctaaaaagga ggcattgattt actttgtttc cccagcatgt taaaaaatgg tcaaaacaag 300

gttgaacatc ctgggaatcc tgttacaaa aggttttggga tgatcaaggg tggacccaaa 360

agtacggaga gccgtctcaa agagtggag aacgaactcc t 401

<210> 6583

<211> 190

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e06a1

<400> 6583

ccaagaagga ggaatttgtc tttttttgtg ctaagtcggc acaactagta atacgtggga 60

ctggtgcagg catgactaca tatggactgg ggagtgggac ccgaaagagg cgctgctgaa 120

ctataggctg aggagaaaaa cgctgagaac acattttttg acgctattat tgagaagatc 180

gatactttcg 190

<210> 6584

<211> 409

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e06d1

002220-0331-0550

<400> 6584

gtgaggaaaa atgaaaaata gtccatccga atgtattgcc gaagtcacac cttttctaaa 60
tttctaataa gaatacattg cttcttagaa caggggtggt acacttgac ctatattggg 120
cgactacgaa tctttgataa gaggcacagt cttcacaag aggaccacca agcgccctgt 180
taaacaaaag accacccttt caaagatttc aggcacagga acctccaaaa actaaaggac 240
gaatacatag cgggattcta cctacgatcg cagaagactc acacttctgg aggaaaaatg 300
tgaacgcatg ctaggccttg ggagatgcta ttgggggacg atcgccacgg atgtcaccca 360
tcctgtgaat atccggaagt gcccgctct aagaaagggc ttcaaaaac 409

<210> 6585

<211> 429

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080e07a1

<400> 6585

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cgtaacaaaa gtttcgcgaa tctgccttcg gagaagaatt taagaggggt gcttaggtca 120
tatgtacata agcccggtgc taaagatagc atcatcatag tagattcttt gaataacatc 180
aagggttacc gatacgagct atgggtgcttg gctcgagcag cagggatcag atattgcgtg 240
gttttctgtg atgttgaaga aaccatttgc aggaaatgga atgaagaacg caaggagaaa 300
ggacaagcca attatgatga tacgatattt gaagatttgg caggaagggt tgagatacct 360
gatataagaa acctggggca tactgcattg cttgaattat ggccacacag aggaagaaca 420
gagaaatct 429

<210> 6586

<211> 376

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080e07d1

<400> 6586

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aataataatg ctctaggtaa atataaaaca gctcaggatc taaacacaca aacttgggca 120
 tcttttatca cacgtataac atgaattgca agactatcat atctttcagg atgttcccag 180
 ttccctgttc aagtaggcaa tgaacattct ttctgcacta tctgcatcaa aaggaggtgg 240
 tggcccaactt aaacttgttt gccctggcaa ccatatgaag ggacggggca tcctactaag 300
 ctctggaagc ccaactgacc ttgaaatgtt tattacaggc aagactttcc ctatggaaac 360
 tccattaagt ggtcct 376

<210> 6587
 <211> 464
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080e08a1
 <400> 6587

gctcatcaga ctctctccc aaacccaagc ccaagcccaa gccaccatc aattcaacaa 60
 caacaatagc tctagtaatg aaatcgccat cgccatggac tgcaaagccg tcgctgacgt 120
 ggcagtctcc aagtccaga aggtcatttc cctcctcggc cgaacccgta ccggccacgc 180
 caggttccga cgcgcccctc tccccaaaca acaccaaac acccaacctg cctccgaacc 240
 gtccgttctc cacgtaccc cgctgcacca gatccacct gcctcccttc accaaatccc 300
 caaaaccgag aaacacctca acgattcatc gtctaagacg cttcatttct catacccctc 360
 cgccgttact tccttcgtct cctccctgac cggcgacgcc gacgacaaca aacaaccatc 420
 cccggcggcc acgaccacga cctcccactt tgagatcacg agcc 464

<210> 6588
 <211> 248
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080e08d1
 <400> 6588

ccttggcaat atttttttta atgatgcagc ggattcaciaa tgatccattt agcctggaag 60
 ggaacgagaa taataaacat tctgataaac atgaatgcac tagtgtacgg gggaaggggc 120
 catcaccac aactcattac tttgtggatg ttaatggccc ggtgaccgac tggagagtgc 180

aagttgccat ccaatgatgc acgccgtacc tgtgcgactg cgaaaacttg atacgcaaga 240

taaatgat 248

<210> 6589

<211> 349

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e09a1

<400> 6589

tagtagtaag catggagtcc tcaaagatct atgcttacct cttcctctgc atgatctatt 60

tctcttccac cactcccatt ctoggttggtg gctactgtgg caaaccccc aaaaagcaca 120

agcctggtaa aacaccaaag acacccaaaa caccggtga taagccacca gtcaccatcc 180

ctcccattaa tgcacctacc gtgggttcttg caccaatagt gaaaccccca agtattctcc 240

ctccaatttc aattattaac ccaccaacca caccaaggga gggagggaac actccatgcc 300

caccacaaaa gtatactgcg caggctacgt gccccattga cacgcttaa 349

<210> 6590

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220080e09d1

<400> 6590

attcaacaaa ttaaagcgca attcatataa attaataatt gaacatgtca cagagaagca 60

tctttgctgc tacttgcta agattatatt aaaccataca tgcaacgatc tcaattaaaa 120

acaaatggtt ttacaaataa tagcaaaaaca aacaacagca gttccaatca gaagagaaga 180

gagatagtgt ggctcgacat cctctcatgt cgattttgac catatattcc tcaatccttt 240

ccacctggtt tagaggggagc acgtgtaacc aggaggagga gacttgccac aagtcacaag 300

gagctgaagg gcaagtggga cataaatggt gaggttgaga agcttcagtt taagagtgggt 360

gcaaagacac accgcagctt caacctcaac aagcccttga agcacggggc agcactgggt 420

cgcaacaggg tcacccaaac caatgtgaac caaccctcca agaagatcca cacaggcacc 480

aagtttga 488

<210> 6591
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080e10a1

<400> 6591

aggcgctcag tcagatacgg tattctgaat ctaggacgca cgcattgcgct cgtccgggag 60
 ttccgattgc ggactcagca tggcttacta ttttaagacc cgtgaacgctc tcactatagg 120
 aattagtgc gaattctgca agcggggcgca ggctgatcgc cgaacgcctg ttctaatacg 180
 aagaccacct gagcgcggaag cctagccgtg cgatgtgatg gattgagatg aacatgttta 240
 gtgaagatgc ggatatttaa gttcataatc aggggaacag ttgggtgagc gggctggcaa 300
 tacacgaggc ttactcgca gatgggctag ggtatattgc gactacagta gttgacatga 360
 cagctgggca tgtattctaa ccatgccgat ccaaggaatg atgaaggcac agccgttctg 420
 caagttatgc tccccca 436

<210> 6592
 <211> 474
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220080e10d1

<400> 6592

cattcgaatt cattttatatt atatattaat attatattca aatgaaataa aaagatatta 60
 aaagatacta attataagaa ttgaaagtg aaattataaa gttattaaat gattaatcaa 120
 tttttttcta cctgttcctg tagtaaaaag agttccatct gttcttgaat agcttccttc 180
 aaaaggactt ctgcttcccc agtgaatgtc ttggtagaag atatgatttc tttgaattga 240
 ggttttattcg tgtttaagta agcacgtaac tcaacaagaa atttccttac ctgtccaatt 300
 tctaataaat caagataacc attcgttcca gtataaatag ttattatctg ttctttcacg 360
 gtaagaggag ctgattggga ttgtttaagc aactcgcgca atcgttgacc tcttgctaata 420
 tgattttgag tagctttatc gagatcagaa gcgaattggg caaaagcttc taat 474

<210> 6593
 <211> 398
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e11a1

<400> 6593

ttgcgggtcc agctctatat gtaataaagg aactgaggtg caaacttaag cggtatgtat 60
 gaattgaaat gacaggatag tgctgtagaa aaaagaagaa cccaggcgcc tccccattat 120
 tggagagtgg cgacctgaga acttattatt gaccgtgacg tgaacgcgta ccattctgtgc 180
 gtatagttag agtgattgta acttcccgga atcatggacc tagctagagc gcgtgacaag 240
 tgacactacg gtaacaactg cacacataga cgctgccctt agacttaatt gtaaagcctt 300
 gaggtgccga ttgaccacgc tcacttacac aaattgtgat gtactccctg tgatcttcac 360
 ggcaaatcca tcggtgatcc caaaggacta atgaatcg 398

<210> 6594
 <211> 74
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e11d1

<400> 6594

gaagcacaat cattactttt taattaattt atattgcttg attttgcaac tcattacttt 60
 tattgccaat taag 74

<210> 6595
 <211> 74
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080e12d1

<400> 6595

gaagcacaat cattactttt taattaatta atattgcttg attttgcaac tcattacttt 60
 tattgccaat taag 74

<210> 6596
 <211> 399

<212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f01a1
 <400> 6596

aaaaaaaaa tttccctttt tttggctcaa aaaatttctg caatacattg gctcgttaca 60
 aatttgga aaactcttccc tcgcgaattt taactgggga agcccaaatt atgggttatt 120
 gggttgccat ttctcaaacc aatcaacggg gggtgctaaa aaaatactcc ctcaaagtgt 180
 cccgatttga tgaaaccagg aattttttga acaaaacatt gcgagttatt caatcagacg 240
 gtccaagctt tttttcaggg accccaagct tgtcaaaatc ttcagagctg ggccctccga 300
 gtttcaatgc agcttcctta agagtacccc cttttttggg ggctgttttg gcaactgggtg 360
 gtgccttgtc ataaccaatt tttgggttta aggggtggga 399

<210> 6597
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f01d1
 <400> 6597

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 acatagagtt ttagttcaga gacccaaagt aactcctaga cgcttctgct accaccaaaa 120
 aaaacaaact aggctaata ctgcgaatgg gcgcagaaaa aaattattta ggcttcccca 180
 caaacagatg tatgatgaac acaagaccac attcatgcag gcccgcacgt tgatccataa 240
 tgctgacata aactccctt cctcggaaca cgaggcacac gcttaaactg catggatggc 300
 actgccattc atattaccac atgtacgggg ttgcatgaaa agctgattgc ctacagggtc 360
 cttatgtaat aagctttcga gacacggagg agggaccoga gtcaccaata gactccccta 420
 aactcagttg tgatatgcca accagttcat caacatt 457

<210> 6598
 <211> 354
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f02a1

<400> 6598

ttttgttttt gtgttttttt tttttttttt tttttttttt tctttaacaa tccatgatat 60
tattgaatga cagaccattt ttcattggtc cgacatactc tatcaggacg aacctgatgt 120
caactacaaa gaagactccg gtgatgtcaa caagtgggac tttcgacaaa caccggataa 180
cacaataaat cctccggcgt tctgtggaca cacaatcatg agggataatt cgcggttaaa 240
taaagaacgt aggtgcaggg actgaagacg agcctaatac caacggtgcc aggcttghta 300
aaggggtgat ttggtggttt taggaaggaa aaagagtgc aaggactggc aagg 354

<210> 6599

<211> 384

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f02d1

<400> 6599

gtcaacctgt acccgcaaca ttggcttgac ataacgcaga cagcttgact aaccgggcag 60
acatagggtt tttgaacaaa gacccaaagc aactcctagc cgctgctgct accaccccat 120
acacgagcta gggttctcac tgcgcattgg ctccgagttt aaccatttaa gccacccaac 180
aaccctttgt ttgaaggcca ctagacctca ttgatgcctg cccgcacgca ggtccataat 240
ggtgacatgg ggaaacgtta actctgtgca cgaggcacgc gctctaactg taaggagggg 300
actgccactt ttactagggc atggaggggt tgcattgaaca gctgtttgcc tagagggccc 360
ttccgtggga tgtttccgag acac 384

<210> 6600

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f03a1

<400> 6600

ggaagatatc atgggaaata tgaagatgac agaatatcgg acaatcttga ttgttcagcg 60
gatgatttga cggatattga gaaagaagaa attggtcggg caatagcact ctctctttca 120
gaggcagata agaaaggga aaaaagttat tgaggacgac tctgaatctg aagatgatga 180

actgtgtcca cttagcgacg aggaagctga atctgttggg gaagttcagc aagatgaaga 240
 tgaccatcat gctaaaattc aacaggatga agacaaacat cttgatgaag ttcaacttga 300
 ggaagatgaa caacttgcca gggcaattca agaaagtttg agcattagtt ctctcctcg 360
 atctgagact gattctttat ttcaaccttt tgcacactta tttccacctg tatacagaat 420
 ctgttctggc tgtaatgctg agattggcca tggaagattt ttgagttgca tgggagggtta 480
 ttgg 484

<210> 6601
 <211> 572
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220080f03d1
 <400> 6601

atacaaactt ttactataat tacttcaact gttttatcat tttcaactgt tgcaagggtat 60
 tttgtaatac atatcgaatc tgagggtgcct acatttatct gcctacattt atctggaact 120
 tgcagaaaact gcacatttta tcaactcctca tcagcacccc cctaaaagaa aaagaaaaaa 180
 aaacggaaaa gaaagatttc tggcaaccgc agactaacag gagcattttt cattccttac 240
 tagtccggag tagcgtgaaa actatataat tttggaacct ttgaatccta cataatttaa 300
 aagacaaagt tgatatattg gttggagtaa aggaaagaaa attgtatcat atttctggat 360
 ttgatttctc taaagcgaat ctttacttta cagagaaaag taagtttcaa ccattgatga 420
 aaaatcaacg gttcatggat ttgttaaagg ttaacaaaca actctttaat tatctcatca 480
 acagttgagg ccccttactg tgctctttaa agtgaattac tcactctaaa gggtaaata 540
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<210> 6602
 <211> 444
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220080f04a1
 <400> 6602

ggcaaaatta agagtgcgat ttgtgggaga atactgtctg ccaaccacgt cttcaaacca 60

ggggacacac attaaattgg gaaaggacca tactccaatc tttagtgacc catggatgta 120
taggcacagg gcatggtata ggaagtgggtg tgctagaaca gccagttatg agaaaaagta 180
acccttggcc ctgagtgtgt attagatcta aagaaatcac ggaagtcagt accgtgatat 240
cgagtcataa tgctcaacga caagctgaat aaaccggaat acttgggtcca agtgctgatg 300
aaggatatga ctggaatgac cctggattat gcagttaata tcatgcaaga tgtacactac 360
aatggatagc tggttgtgat tatgagccta ccggcagttg ctgaagatca ctgcctgcat 420
ctaagatgcc ttggattggt caat 444

<210> 6603
<211> 398
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080f04d1

<400> 6603

agacttaata tgctgtgcac ttttttattt aaaaagacga ctatcacatg ttttaaacia 60
aggttttttg ttcacgttaa tcataaggcc gagtttttca caagaaatat ttgttttttc 120
tgttctggtt aatataacgc cttcatgacg agggaaactta tgtacacctg caaatggggg 180
catatgacct ttcaatagca taaataccag ggggatttgt ggtaaatctc gccatcagaa 240
accaccattt gctgggttaa ttggaatgag caatccattg ctttttaact gcatgcagtg 300
atcttaaaca tcgggttggt ggcagaagat cagcactgac aatccattgc cgtgtgcttc 360
tcgcatgata ttaactgtat taacaagggt cattccaa 398

<210> 6604
<211> 620
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220080f05a1

<400> 6604

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ccaaaactcg aagatcttgg tgaggaagcc catggcaaata cagcagaaca tagtggtggc 120

agatggcaca gggcagaaga acatgcccac aggaatagtc ctccataact gcgagatcat 180
 gccggaccct accctcttgg cagaccgctt gagcgtgaag acttacttgg ccaggccatg 240
 gaaggcattc tcaagggcag tgttcatcga gaatgttatc ggggacttga ttcagccaga 300
 tggttatatt ccatggaacc caattgaacc aaacacacag gattgctact tcgctgagtt 360
 tggcaacact ggaccagggt ccggtgctca agcaagagcc aagtttggca aaggtctcat 420
 tagcaagcag gaggtgcac aattcaactgc tgagccttgg ctccaagcta gcacttggnt 480
 gcctgctgct ggcgttcctt tcgatgctag cttcaccaaa gcttaatgat ccgagacaaa 540
 ccagcatttt gagtggatatg atctcttttt tagcctacct aaattaataa aactttaaac 600
 aggaaatcgg ttacctaatt 620

<210> 6605
 <211> 523
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f05d1
 <400> 6605

ggcaaattaa gtagtttcca ttaaatagcc aaaagcaaaa ttcccattgc ttctcccatc 60
 atcagtctat ggtatatgca tactgaagac agagatgaag gggttggttc caaaaaggct 120
 taaatcataa atatgaaaag cttattgaat gattacaaat tagctcctca gacaatgggg 180
 gggctatgtg tgactgcctt gaaattaggt aatcgagttc ctgcttatag ttttattaat 240
 ttaggtaggc taaaaaagag attataacac tcaagatgct ggtttgcctc ggatccttaa 300
 gctttgggga agcttgcac gaaaggaacg ccagcagcag gcaaccaagt gctagcttgg 360
 agccaaggct caacagggaa ttgtgcagcc tcctgcttgc taatgagacc tttgccaaac 420
 ttggctcttg cttgagcaac ggaacctggt ccagagttgg caaactcagc gaaggagcaa 480
 tcctgtgtgt ttggttcaat tgggttccat ggaatatgac cat 523

<210> 6606
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f06a1

<400> 6606

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 ccaaaactcg aagatcttgg cgaggaagcc catggcaaat catcacaaca tagtggtggc 120
 agatggcaca tggcagaaga acatgcccac aggaatagtc cttcataact gcgagatcat 180
 gcctgaccct acccttttgg cagaccgctt gagcgtgaag acttacttgg ccaggccatg 240
 gaaggcattc tcaagggcag tgttcacga gaatgttatc gcggacttga ttcagccaga 300
 tggttatatt gcatggaacc caattgaacc aaacacacag gattgctact tcgctgagtt 360
 tggcaacact ggaccaggtt tcgttgctca agcaagagcc aagtttggca aatgtcttat 420
 tagcaagctt gaggctgcac aattcactgc tgagccttgg cccagctag cacttggtcg 480
 cctgctgctg gcgttccttt cgatgc 506

<210> 6607

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f06d1

<400> 6607

gggcaaaaaa agtagtttcc attaaatagc caaaagcaaa attcccattg gttttcccat 60
 catcagtcta tggatatacg ctactgaaga cagagatgaa gggggcgatt caccagggca 120
 taaatcataa atatgaaaag cttattggag gattacaaag caactcctca gacaatggag 180
 tggctatgtg tgactgcata gaaactaggt gaacgatgtc ctgctaatag ctttattaat 240
 ttaggtaggg taaaaaagcg attataacac tcaacatgct ggtttgaccc ggattcctaa 300
 actttggtga ggggatcata gaagggatcg tcgacaa 337

<210> 6608

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080f07a1

<400> 6608

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taatcctggc tttcaccttt gctttcttca agatcccact cgtcttgctc cacgggctcc 120
 agacctacat ccaccccgac tcccaacccc aatccagcaa tggcctcaga gccgccatcc 180
 gccgccccgg cagcatcgac ggctaccaac ccttgtcttc caaaaccgcc gccgaaataa 240
 aaaagcggaa caagtccaac aacaacaaca acaagtccga tttcgacgaa aacaatgctc 300
 agattttcag aatcacgctc gaccacgccc acctccagtc cegtctcttc atcgatcagt 360
 actgctcgc tttcactctc tcctttgctg cccttttcac ccttctctc cacaccttc 420
 tcgattcccc cgacaatcgt ggggttcttcg ccaacggcgt tttcgttccc tttctcgtat 480
 caaatttgag tctttactc 499

<210> 6609
 <211> 279
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080f07d1

<400> 6609

gaaaggaatg tgaactttca tatgactttg gcctttctat agtcagttta ttgtgtatgg 60
 ttcttatgcc aaaagcaaca tacaacacag ttgtacttga aaatctgata tctgctaaag 120
 aatgaaaccg tgccaactaa cctgcaaaac ttatgttaca agttcaacac tcctcccaaa 180
 atgaaagtat tcaaattaca acaaaaggct caccaaaggc ccaataaaat cgcactcagg 240
 aaaaacaaag gctcaatcca gaaacataca aaacacaat 279

<210> 6610
 <211> 279
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080f08d1

<400> 6610

gaaaggaatg tgaactttca tatgactttg gcctttctat agtcagatta ttgtgtatgg 60
 ttcttatgcc aaaagcaaca tacaacacag ttgtacttga aaatctgata tcttctaaag 120
 gaatgaaacc gtgccaacta acctgcaaaa cttgtgttac aagtccaaca cttctcccaa 180
 aacgaaagta ttcaaattac aacaaaaggc tcaccaaagg cccaataaaa tggcactccg 240

gaaaaacaaa ggctcaatgg agagacatac aaaacacag

279

<210> 6611
 <211> 566
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f09a1
 <400> 6611

ctgaaatgtg gtcctggaca ctgtcttagt attggaagtc ttggaaagta tgcggatgag 60
 caagaagtga aagacattcg cgttaagaac tgcacgatgg ttggcacacc caatggcctc 120
 agaatcaaga catggccaga gtcctatcca cgttcagcat cagctatcac cttcagtgc 180
 attgtcgtgg aaaatgttaa aaatcctatc ataattgacc aagagtatga ttgcgaacca 240
 gcaaactgcc aaaagaagcc ttcacttgta aagataaacg atgttgTTTT ttgaaacata 300
 aggggaacca cacttttacc aattgcagtg gattcaaaga gtagcaagca gttcccatgc 360
 caagatgttt aacttaagaa cataaacctg aaccttggac ccaagccgtt gggtttctga 420
 tgtaccaata ttaaaccaga ctatgggggg tgtcaaagac cagcagttag cctataaatc 480
 ttgacattca agcattttgc agttcttgca ataaggaggg aagggaagt aatggTTTTg 540
 acaatcaaac caaatgaggg aaacat 566

<210> 6612
 <211> 474
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f09d1
 <400> 6612

acagcatgaa gttttcattc tctggtatTT tgtgataaaa ttaataacca agaatgacat 60
 actctgaaat ttactcctct cagccagtta atatacatga gttcctgacc caactgttcg 120
 aaacaacaca caacctctct agattcactc taagaagatc tggcggtagt tgaatggctg 180
 gtctaaaggg aaatgcttat atttacactt tgagtacata ctacataagg ctagaaaaag 240
 tgcttaattc acttattcta tatacaattg ctggTTTTTc tatattcaga aaaactaggc 300
 atggaagtcg attcaattgg ttcaaaatgt tgaaaacctt tccccctact cctgtatata 360

tatgctacat gtgttcctga tttggtttga ttgtccaaaa cattactgtc ccttccctct 420
 ttattgccag agctgcaaaa tgcttgaaat ttcaagtact tataggcaag ctgc 474

<210> 6613
 <211> 370
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f10a1
 <400> 6613

cgcagtagta gatacctact ccgagcttga gccgcatgcc tcgctcggag ttcggatatg 60
 aggctaaagc tgaaatgcgg accttcactc cgtgggtcttt ttgctgggc tcgaaagtga 120
 gcggttgccg atgaaggac atgggtttcc ggcaagaacg gctcgacggg tgggacaacc 180
 acaggcctga gaatgaagac gtgctacagt gcgcactgca ggtggaaact tatatcacac 240
 ctcgagagac aggtcgacta atgggttgaga agcttattct acacgacaca caggataatg 300
 gcgagacctc aacctgcact ttgaagtcca ctactatgaa tatgaaatac actatcccgt 360
 ctaagataag 370

<210> 6614
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080f10d1
 <400> 6614

acaacatgaa gttttcattc tctgggtattt tgtgataaaa ttaataacca agaattgacat 60
 actctgaaat ttactcctct cagccagtta atatacatga gttcctgacc caactgtttg 120
 aaacaacaca caacctctct agattcactc taagaagatc tggcggcagt tgaatggctg 180
 gtataaaggg aaatgtttat atttacactt tgagtacata ctacataagg ctagaaaaag 240
 tacttaattc acttattgta tatacaattt ctgggttttc tatattcaga aaaactaggc 300
 atggaagttg attcaattgg ttcaaattgt tgaaaacctt tccccctact cctgtatata 360
 tatgctacat gttgtcctca tttggattga ttgtccaaaa cattactttc ccttccctct 420
 ttattgccag agctgcaaaa tgcttgaaat ttcaagtact tataggccag ctgctgggtct 480

ttg

483

<210> 6615
<211> 352
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080f11a1

<400> 6615

attcccttgg ttttaccaca acatgctcac ttttctcaag cgacatgggtg acacatctgg 60
aaatcctgtg cgggggcttg ttggctctca tgatgcacct gtctatgacc agcccccata 120
caaagtgttg ttcaaagcag tggtctcagg ggagtatact tattgctgact aaggatctct 180
ctggacctcc aaacagctca aagggcatgg ctactgcctg atttaaatag catcttcaac 240
tcttggtgac tctggagagg cgatctatgg gaaagaaccg tcttctgcac tcttggtctg 300
gagcacggtc ccattcttga gacaaacacc ggggttctat gacacagtgc ac 352

<210> 6616
<211> 489
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080f11d1

<400> 6616

agaataaaca aggaaaaggg atcctcatat tatgcttaca aaataacctg tcctcaatct 60
catcccatgc actgatgcaa gggtagtata ataataacta attgttatat acatgattat 120
catagattac aaatttacia ccattaggct gcttgcacgc tcacagttga atcacggctc 180
ataaccacgg cggattcagc acctacttcc tcctcagcag gtagatcatc tgaatgcagt 240
tccggttgct taaggctccg gacaaactca gtgaacaaag gaaaatgctc tggagagaag 300
aatgatgctc ccattctatg atatgtgaac aagtccaata cattatctcc agataaattc 360
ttcttaattt gttcaaacc ccttgaaca ccagattcag acgaattttg acctgaaacc 420
tgaacctcat gctttttgca agcttccata atttgtgcaa gtagcaactc agggctagaa 480
tggttttcc 489

<210> 6617

<400> 6617

<210> 6618

$\langle 211 \rangle$ 121

<212> DNA

<213> Glycine max

<400> 6618

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gattttttttt tattttttttt tttttattttt tattttattta tttttatttta tatattttaat 120

t 121

<210> 6619

<211> 369

<212> DNA

<213> Glycine max

<400> 6619

gccacgcata ataattccac agtccttact gttacaaaat gacaggggaac aatgcgagca 60

ttaaatacgaa cctatgaaac cgcgtgtaa ttttgaagg aaacacccac ccactctcca 120
 ttgaccttcc ttattacgga tttggaacag aagaatgctt ataatggggg caaaaacact 180
 aacatatgct ctctattgga aataactagg ggcctgctca tttagagcca gagaaatcgg 240
 catcaatgac atcaccgggg ggttccttgg ctgaggatac tgagggggcca gaatccgcac 300
 cgggtggagt tgatggccat tctgcgcctg catatcctgg ctggctgcaa agggactgac 360
 caatctgga 369

<210> 6620
 <211> 529
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g01d1

<400> 6620
 cccaagacat gcttgagatt ttattaactt cagataaata tacatatttc tttaatagag 60
 gaaaaagaca taatattctt ggcattctagg aaatttgatc caacttgggtt ggaacatcaa 120
 ttttaacttga attgatttaa gacttattaa ttgatcattc tgcaggcctt tctaacctcc 180
 tgtccacat tgatgctact cattctgac atggacttcg caaaagcctc ataaaaagcc 240
 ttttttgagg tggcaaactt tgtaaccaga ttttttagtgt ctgggttgtc aagcaaaact 300
 tgatcagaag aaaacaagcc tttctgttgg aggatcaacc tgtaatatgt attatcaaaa 360
 gttgttgttg aagggtccat agagggtgcct gcattttttg cctgattttt tagtggacaa 420
 attgagatca gttttgctgc caatgatgga tttaatgaag ggtcaacatc atgtgttgca 480
 ttgaagtagt ggattctgtt ctttgaagaa gagcagttag agaaaccca 529

<210> 6621
 <211> 511
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g02a1

<400> 6621
 cgaattgcga agtgaatttg acagatgaga gaagcgggga aaaacaaaat cctaaatctc 60
 ttcttgagtt attgagattt atgaatcatc acacatatat acatatttat tcttacggag 120

atataattta ccatgaattc gagtatacac ctaaattgat attcatgata gtagaccgaa 180
 taaaactagc gaggcttggt tgatgactct tgagactctc caaacttcgt gctgtacacg 240
 atgccacgat tctgcagtat gtacattttt ggccatttta acagcatcat cgattccagg 300
 gaaagattga gagccgtagt cattatgttt tgatgggtcca taaatcaa at gcttatacca 360
 tgacattcca aagaggccat ctctgtcagt gaatgcacgc tcagccatca tcaatctatc 420
 attcagctct ctcaactctca agtgggtcctt cttacctgtt atccaacctt taccagcttc 480
 tattaccttt ctctggctat ctatcttgat t 511

<210> 6622
 <211> 557
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080g02d1

<400> 6622

tttttttttt tttttacaca caaattaact tcttttatatg aagcacttaa atatatacaa 60
 tacaattaat tcctagcttg caaccagttc aatgaaaaca aaataagggg gataaaatac 120
 aacagatgaa tattcgttgc ttcaacatct acgtgtcata taatataaat gatcacacca 180
 taatctgaac ttgaccata attcaccgt cattgaacag ggaacacatt cctcaactgt 240
 ttcaccatgg tggggatttt tttcacagtc aacaaatttc gtaaaccattc acagggcagt 300
 cacatgaaaa atatgattaa actttttaaaa cacyccccac aagaaaagag aagaaatcaa 360
 aggacagta gagaaaatta aaactccttg gctttttgct actaaggggc cacctccagt 420
 cttgaatcta tctaaccatc ttgacctca actgcatgtc ttcttcatgt acaccactct 480
 ctctgtgaaa cacanattct taaaacacgc tcttacctgt ttctaccaa ataataatc 540
 aatcactgca aggtttt 557

<210> 6623
 <211> 481
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g03a1

<400> 6623

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 ggcagagggg ctcgtttctcc gcggaaccat gcgcgcccac accgacgtcg tgacggcgat 120
 tgccactccc atcgacaact ccgacatgat cgtgacggcg tcgcgcgaca aatacatcat 180
 tctctggcac ctcaccaagg aggacaagac ctacgggtgtc ccccgccgtc gcctcaccgg 240
 acattctcac ttcgtccagg acgtcgtcct ctcatacgac ggtcagttcg ccctctccgg 300
 cttctgggac ggcgagctcc gcctctggga cctcgcgggg ggcacctctg tccggcgctt 360
 cgttggccac accaaggacg tgctctgctg ggcgttcttc atcgacaaac cgtagatcgt 420
 gttggcctct cgtgaccaga cgatcaagct gtggaacacc ctgagtgagt gcaagtacac 480
 a 481

<210> 6624
 <211> 539
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080g03d1
 <400> 6624

aattgagatt atatctcaac catattctga agtaaagata atattggtaa ccggagaaaa 60
 acaaagatgt tgaaatatcc atgtaacaag taaataacca aaacgaacgt tttaaaaaat 120
 aaataaaagg ccttagtgcc tcggtcttca acataaaaaat gaattctaca gtaaagcagt 180
 aactaacttt gtcccaaaac ttaaaaacag attcgcattc gaaaacacta aaaagcttaa 240
 cctaataacg tccaatagcc caaactctga ccacaccatc ggtatagcca ctaaacaaag 300
 tgcttccatg cgcactccag ttcaaacttg tgcaataaat aaccttcttc ttgttggcgt 360
 taccaccacc ggaggtggca tcagcctcag tcttgaggtc aaccttcaaa ttctcaacga 420
 tactcttgct ctccaaatcc cagatcttga tgctctgctc ggaggcggcg cagagccaat 480
 acctgttggg gctgaagcaa agtgcattga tgattgagcc agcatcgaga gagtaaaga 539

<210> 6625
 <211> 330
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080g04a1

<400> 6625

caagagcttg atccccctgcg cgagtgttgg cgagaggaac ctgctagctg acgtggcgag 60
gattgttgag aaaaacggca cgtcgtttta gcgaaaagac gatttgagga aggtcgctgc 120
agaagcactt tcctctctcg gctacgattc ctctatctgc aaatcgaagt gggagaaaaac 180
tttctcttgt cctgctgggtg aggatgaatt catcgatgcg attgtggaag gggaaagggtt 240
gattgtcgat gttgatttta gatctgactt tgaagtagcg cgaacgactg gaacttacia 300
tgcgatgctg taatagctgt cgttcaccta 330

<210> 6626

<211> 415

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080g04d1

<400> 6626

atgacgtacg tgcgtcgcggtg gtaccagggtt ccggaattga ttcccggagc tacctgctca 60
ctggccggcc gtcgcccttt tttttttttt ttttttttac attggtgcga accaaaaatg 120
gacataagaa tagtaggcct tcttaciaag ttttccctta cgaccaaagt atgggcaatc 180
ggaaaaactc aatactacac acagagacag ggggattccc tcttcagagc ctttctgtca 240
agatgctaaa ttcctaaatc ccactttgta cactaaacag acacaactct gtgagcaggt 300
ttatgatacg tactcgggaa gaggggggaa atcggtcact cccttaaaag atccatcact 360
actctccgga ttccccgggg ggggttgcca catacgatct ttcttaatgg aaaaa 415

<210> 6627

<211> 478

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080g05a1

<400> 6627

tcccttcaca ccattctcac aaaacaactt tcaaactctg agaaagaatg gctgccaca 60
cattgatgag tactgctatc tcagccttcc catctctcct ttcttctca aaatccagat 120
ttgccaccgc agttcctctt tctagctttg gtgtcaccaa tgctcttct tctcgctttt 180

ctatgagagc tgactggatg ccaggccagc ctagaccttc ttaccttgat gggtcagcac 240
 ctggtgactt cggattcgac cctcttcggc ttggtgaagc accagacaat cttgagaggt 300
 tcaaagagtc ataactcatt cactgcagat gggccatgct tgctgataca gggatttttg 360
 ttccagaggc attgggctta tgcaactggg taaaggctca ggaatgggca gcatgttctg 420
 cgggccaagc cacctaccta agcaattcag atccatggag caccctaccc accattct 478

<210> 6628
 <211> 493
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080g05d1

<400> 6628

aggacgtagc gtcggtangc gagccccaat taggaaccga ttcgacgagc tcaactgctcg 60
 ctggccggcc gtcgcccttt tttttttttt tttttttttt tttttttttc aaggcaaaat 120
 ctattgggga ataatgatgt tttcaatgtt tttgtgcaa ggaaaaaaca agtgatcccc 180
 ctctttctcc aaagggtctt tgccgggaaa cgcggtattg ttgaaccggg aataacagga 240
 aaccctaaaa accaagacgc caattttcaa gttttttttc tgggaatgca tggaccgctt 300
 tagggccctt aaaggaaacc aaggggtgga aaccaccacc aggggattcc ttcttcctcg 360
 ggtcctttta aaaacccctt ccttgtttta aaaaggaaat agcctggaaa aaatggggcg 420
 tattgggggc acacggagcc ccaggagac ttccccgctt aggttgccag attggccccc 480
 agaaaccgct ggc 493

<210> 6629
 <211> 375
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g06a1

<400> 6629

ctcgagccga ttcggctcgt gttttatctg tgcgacttga gcctcctatg ctcggggaat 60
 tattgaagaa tactgagcaa gatctcaatg aagcctactc tactgtcgag gacaaggcac 120

ttctataaga gggctgtgtt ataactgtgg tatctcttga gaactcgatc agagatcgtg 180
 actctaacag agagagtagg ctgatggct ctggagaaaa agaattagag actcacatct 240
 cagatgcagt tatcattaag agctctgagg ggacgtgata gagaaaagga gagagttggg 300
 ttcgaaatgg aatcttttat ccacgagcaa tcattctatgg agaaccagac atcgtcattg 360
 ggaacactga tcagt 375

<210> 6630
 <211> 438
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g06d1

<400> 6630

gcatgttcct ctatttgact ctcatctctc attcttatat acttttctta tacaaaacca 60
 gagcattcat attcaaacac aaccatgtta ccccatcct cggtattgga acttctaaaa 120
 ttgctttata gaaacaacac tatcacatat ggaccttac actgatgttc aaattacata 180
 aaagctttta aattacaggc attacctaca tttctagggt cctgaagat gaacacaagt 240
 gcaagacttg taacagatcg gtgaagcaaa cacatcattt gctttgtgta gctgcaacag 300
 ttgctgaac agttgaaaca ccatccacaa atttgtccg gaaaagaaca tttgcattat 360
 tgaacatgcc ttccttcaag gaaaccacaa taaactgaga gtgcggaaag tgagccttta 420
 tcattctccc tatgtttt 438

<210> 6631
 <211> 361
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g07a1

<400> 6631

acattgtgca agatgtggca ttgattggga ccagaaagat ggccttctcc tgattgaagc 60
 cgatagactt ttaaaaccta ggtggatact ttgtttggac atcaccgctc acaaagtctc 120
 gtaacaaata aaatcagagg aggtggaagt ttatgcaaga ttttacatta actctttgct 180
 gggaactgct gtcacagcaa gatgaaactg ttgtatggaa gaaaactagt ataaaaagtt 240

gctatgcata aagaaagtct ggatctggcc cttctttgtg tggtagaggt attgaagggg 300
 agactccata tgatcgagaa ctgcaaaact gcataggtgg aatacagagc agtcgttggg 360
 t 361

<210> 6632
 <211> 470
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080g07d1
 <400> 6632

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 tcagtggtcg gccgtcgccc tttttttttt tttttttttg gtcacaaaga cgaataatat 120
 gagtttgatt tcacattata aacattgaca cactattaag tgcagtgatg ccaagcttat 180
 acaacaaaca tctaacaacc tatagaaaga taggctttaa cataatcata catgggggaa 240
 taagccacgg atgcggtgca caacaatcac ttataaccgt gttaaccaa gtgatatgtg 300
 tatgtgagta ttacacggga gaggaatgaa caccaccccc atactggatg gtcactctgt 360
 actgaggctc gcgtggacag aacgagggtcc tatgaaaaac ttgccggtcc tattatgaca 420
 ggggggtcac ataggaacg atacacaatt ctctttataa gccgttgatt 470

<210> 6633
 <211> 532
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220080g08a1
 <400> 6633

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 tgagcaggag caacactttg cagcaaaagt ctactcagtc catttccaag gcttttggtt 120
 tggaacctgt tggagctaaa aaggtcacat gctcccttca ggctgatctt aaggacttgg 180
 ctacaagtg tgttgatgct accaaaattg caggattcgc ccttgccacc tctgccctcg 240
 ttgtctttgg ggcaagtgct gaaggtgttc caaagaggct aaccttcgac gaaatccaga 300
 gcaagaccta cttggaagtg aaggggacag gaacagcaaa ccagtgccca acaattgatg 360

gtggattgga ctcatTTgcc ttcaagccgg ggaaatacaa tgccaagaag gtgtgccttg 420
 agccaacttc attcacagtg aaggccgang gtgtggccaa aaatgctccc cttgagttcc 480
 aaacacaaaag ctcatgacac gtttgaccta cactcttgat gagattgagg ga 532

<210> 6634
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g08d1

<400> 6634

aaaccttgaa ttttaaacad tgtaattgga ggtcgatata atatacaacc atgacagtac 60
 tctcagtagt gctaggaaag ttgggtcaag ggataatgca gcaacaccat gcatgaagtt 120
 actaacaaaa tctgagccaa caaacaaaac agaaaacaaa acactctatg actcaagctg 180
 agcataccag atgccctgga tcttgacatc ctttggagcc ttgctccca aatcagtgtc 240
 agatggttga acactctcga acacaccgat aacctcacc gtctcatgct tggctcttgg 300
 gacacttaaa gtgattttgc cccttgaata ataaggactt ttaattgggt tccttggcaa 360
 gttcttctc atctctctt gcaccagcag gcaaagcaac tgcattgaca taacctgtgg 420
 aagcacctct tcctttgagg tccaagaaag agctttcacg gtaggatggg actagaaact 480
 cccactaaa gc 492

<210> 6635
 <211> 96
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080g09a1

<400> 6635

gaaaagattt aggatgaaga acaattaagc tttctcatca tacgggggct gaagcacttc 60
 ttgtgctggc taaacatgca ccaatatttg aggcgt 96

<210> 6636
 <211> 521
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220080g09d1

<400> 6636

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cgtcagctgg cgaccttgat cgtgaaatta ttttttttct tacattaaaa tatgggttgt 120
agaggtggtg aaaaaagaat aggatcttaa cctgatagtc actaacacga gccatgttca 180
atcagaggag aatattggaa gataaagagc accaattgga cactaaagat tttccctact 240
cggcctttca ctacaaccag aagctcttgt gggacaaggg tgaagattac gagggcatgg 300
tccaaaaact taaagttgga ctagtagtgg tgctgtggga gttccaccac cttgctgtga 360
aattagggtg agaacactag ggggcgcca tgagtggaa ctgatcatga catgcttggc 420
gtggaagctg ttggaactgc cgcctctaag gaggagaacg gtgtgggtga ttcttaccag 480
ggttgaaatc tggaacccta atttgaatga cctgatgcct c 521

<210> 6637
<211> 154
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080g10a1

<400> 6637

cggcagcatg cagatacaga acatcgaacg cagcagcacg cgtgcgcacg ctcgtaatct 60
gggatttggg ctagcgccaa gtaactggta gatttaatac ttgagtaaca agatcgctcg 120
ggccttaatc ctggctcttt catccctaga ctgc 154

<210> 6638
<211> 473
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080g10d1

<400> 6638

gttaaaagca agtaacatta agttggattc ggatacgcaa gattattcac attatctgaa 60
gtacttcacc aatcacaat cgaaaaactc ttaaaagtca tttcggctctt tgacgctcac 120

agagccggcg tggggattga ccacgtggat ttgcaggcag ccaccgaatt tgggtgcctt 300
gtcggtaatg cgccaactgc aaacactatt gacgatgccg atcatgggat tgctcttctc 360
gctgacatgg ccgaaacgt tgcccaggct gacacctcca ccaaagctgg caaatggcag 420

<210> 6641
<211> 490
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220080g12d1

<400> 6641

gcacactact agctgcaaac agctagtttt attctgaatc atccaatcca aattatatta 60
cattcgcata ccatagcttc aagtttcctc aaattgtcca tcaaaatacc tcttctacgg 120
tgtaaaaaca gatctagatc atctgaagtg catgtgcact tgagaattgt caaaaaaaca 180
aaaacatttc ttataacca aaatagtagc tattttactt tctaaaacgt accatccata 240
gatggtaggt agatacgcat gattgtttgt ataccattac attatcaact agtactagag 300
cttgaggaag acgaactctt caatggcaga cacggctcca atattgtcaa gagcctcctt 360
gtttggttct tcatcgacac caatagccat aatagccttg ttctacgcg atgtccttcc 420
cacactcata aagctcacat tcacgttttg ttcaccaggt atgtttccaa cacgaccaat 480
catgccgggc 490

<210> 6642
<211> 508
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220080h01a1

<400> 6642

ataaaataag atgccactag tttccattga gagatatata gcatatacat atttgaata 60
agaaacagtg agtcttctgt atgtgacca caatcacacc ctctacatc actccaacta 120
attactttgc ctactttttc aacaaaaaat agaatcgaga gatttgacca tgatgctttt 180
atgtggtaga taattaattc tacacacaca gtcattagtc agtctaatta tagttctcct 240
aactagttag ggaacttcct agtttgtgtt cttggtttgg atcttggtcaa attccagggt 300

ctttttacct tgtaacttgt ttgttacata gtgtttactg tactctccat gattgtatat 360
 tttataacttg catgggtggt tttcatccac aaactcaggc attggaccaa gctccacttc 420
 atagctagga gcaaaaaatg tcacaattga gagtctagct ttctcctcat gagccacagc 480
 tctatgctcc acactcctgt atttccca 508

<210> 6643
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h01d1

<400> 6643

gggggaaaaaa aaaaaccgcg gacaaaaaaa atcccccccc ccccttttaa aaaaaaaagg 60
 gaggggggggg aaaaaaacct tgtccctggg gttttgtgaa ttttgaaaaa aacccccccc 120
 ccggagaagg gggggccttt ttctaaccac cccccccatg gtggctcctga ccctaaaaaa 180
 aaaccccccg ggggaaaaaa aacaaaaaaa agggggggaaa aatttgtggg gaacccccaa 240
 ggggggacat ttgggaaggg gggccttcaa gggggggggg gggaaaaaaa gggggggggg 300
 gcaaaacgct ggaaaagggc ccccgggggg gaaaactctt tcccccttta aaaaaagggg 360
 gccccagtt taaggggggt acaccggtg gggggg 396

<210> 6644
 <211> 436
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h02a1

<400> 6644

ataaaataat attccacttt ttttcattgt tagatatatt gcatattcat atttggata 60
 ataaacattg atttttttgt aaggggggga caatcacacc ctactaaaaa ctccgactaa 120
 gggctaagac tacttttggg acaaaacctt ggaatcgaga gatatgaaca gtgatgctta 180
 aaagtgggag ataatgaatt ctacacacac agtcattagt cacactaatc ctaacccttc 240
 taactagata gggaaccccc tagggggggc tcttgggtgg caccttgaaa aagtccaaag 300
 tcacccacc tcgtaacttg tatgtcacat aaagaaaact gtgctcttcc cgaccgcct 360

002220.FTF550

ttatatacta cccacggctt gttttgatcc acaaactcag gcattggacc aagggggaaa 420
acacaccttg gagccc 436

<210> 6645
<211> 506
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h02d1

<400> 6645

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cgtagcttca acatctacgt gtcatagaat ataatgatc acaccataat ctgaactttg 180
accataattc acccctcatt gaacagtga cacattcctc aactgttaca ccatgggtgg 240
cattattttc acaatcaaca aatttcataa acatccacaa agcagtcaca tgaaaaatat 300
gattaaactt ttaaaacacg ccacaaaaga aaagaaaaga aatcaaaggg acaatagaga 360
aaattaaaac tccttggett ttgtctctc agggggccacc tccactcttg aatctctcta 420
acactcttca cctcaactc catgtcttct tcatctacac cactctctct gtgaaacaca 480
aattcttaaa acaccctctt acatgt 506

<210> 6646
<211> 306
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h03a1

<400> 6646

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atatatgggc aagctctttc tcatccactg actaattgga gactgccttt tgtactatat 120
atccgcttgt gcataggaga actaatctga catcataacc tgaaaccccg ctatcccttc 180
atgtgtcgca cagccttagc cagcatctac caaacataa tcatcgcta tatgtctaac 240
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aacttg 306

<210> 6647
 <211> 531
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080h03d1
 <400> 6647

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 aaaaaagaaa gaaagtagag gatatccaat caatattcct tcgacccctat ctaccatcta 180
 tcacgaatc atcgatcgga tccagctcct tcgaagttgg atccctggac aaaaggaatg 240
 cagacagtgg acaaaggaag aggaaagtac agcaacttgt gtaccctctg ttcaaggaaa 300
 cacccaacat gacaatttaa tttcgctatc ttttatcaac aacctgttat cccgttttgg 360
 aaacaaccaa gaaaccacaa ttcctcccca cacattcggt tgagacacct tctttcttta 420
 gagtattcat aaaccttcat caaagggcac gccactcccc ggaatccacg atccccacg 480
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<210> 6648
 <211> 289
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220080h04a1
 <400> 6648

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 ggaaagcaac atctacatct tttcgtcagt caacgaataa acggactctt atgactgtga 180
 tcttggcgat ggtacgccta tggccatatt atatttatac tctacctgca aagcatgtca 240
 aggagtagtc ctcaaaacgg agatgatcgc aaacccaca ctctttttg 289

<210> 6649
 <211> 394
 <212> DNA
 <213> Glycine max

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gaattatata	ctttttataa	ccaccccaaa	aattgtgcag	tgatgcagca	aattttcact	60
ttaggggaca	aaccaacaat	taccgctagc	cattcctgcc	cttctcaggg	ctatcagcta	120
tgatagccac	tgtgggtggg	cggggtccaaa	aatttttttaa	cctacctacc	aaacagacgt	180
ttgatataca	cctgatccca	ttgattccag	gtccaagatc	ttccctaagg	ggaacaagca	240
atccctttct	caagacggaa	gcacacgctt	gaactgcccg	gatggcactg	ccaaccatat	300
caccacaaat	tcttgttcgc	atgattagct	gattgcccac	agggccccta	tgtagtaagc	360
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<223> Clone ID: jC-gmf102220080h05d1

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tagacacatc	gccaaagacgt	atggaccctt	acaccactt	ttaaaattca	tcaaaccttt	180
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agggtaaaac	caccataaac	gggggggtggg	cggccaataa	aattcggata	attgagcatg	360
ggtttgtgga	ccgaaaccac	gacggactgt	gagtgcggct	agataaaactt	catgagcctc	420
cct						423

<223> Clone ID: jC-gmf102220080h06a1

2958

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 tgccacccga ggtcctcttt atagctgtgg tgtcaccaat gcctcttctt ctgcgttttc 180
 tctgagcgcc gactggatgc caggcccgcc tagacctctt taccttgacg gttcactccc 240
 atgtgactat tgattcgacc actcttctgg aggtgaaccc ccagagaatc ttgataggtt 300
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<210> 6652
 <211> 413
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h06d1

<400> 6652

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 tgtgcattac atcactcctc cacagcacc cctatttga aatagattac aaactggata 180
 agaacgattt cggtagccgc atactagccg gagcaagttt ccttccttac taaaccggag 240
 taccgggtaa tctatataat tgtggaacct ttgaatccta cgttttgtac aacacaaagt 300
 agatatattg gatggtgtaa acgaaaaaga agtgtagcat agctctggat atgatgtttg 360
 tatagggaag ctgttcttta cagagaaaag gaagatccaa ccctggatga aaa 413

<210> 6653
 <211> 488
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h07a1

<400> 6653

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 cacgtacacc ttcagcattt actgctgcgt gctcaagtcc acgcagggt actaccaatt 180
 cacgctcaac accgtttatg tcttaaaaga catcggtgc caactatcgg acgttatgct 240

ccggatcttc tctactacgc cgccgctctc tacacaaccc accgcgcctg ccgcttcaag 300
 agcatatgga cctcattaag cgggacctgg gacgaagtcg cggtcggtac cagccaaagc 360
 tgcgctggct gtatctttat atgagccttc gtcgaggacc tagacagcac tacagcagtg 420
 ccgatcatgt gcttttttcc gttgcgtgtg ggcaacggac tgaccttctt gaacaccact 480
 tatgtttt 488

<210> 6654
 <211> 395
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h07d1

<400> 6654

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 ttctgcgcac attgatctta taacaaataa aacccaattt aaatagtcct cataaaccac 120
 ccctagaaaa ctgccttaac tgtatttatg ccgaacagcc cagagaaaac aagactggat 180
 tcttcagcct ttacctagtg ttgaaaagca ggcaaacgca atctacatca tcttgcgtaa 240
 acgtgtaatg atctaaacac aactcgttta tagaacctcc ggtcccgaa gaataatgcc 300
 ataccgacca aaaactcaag aaaagcaaca cgctgcgatg aaaaaaatg acggcgatgaa 360
 acagaggatg ccaaagcacg aatgatcttc tttat 395

<210> 6655
 <211> 477
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h08a1

<400> 6655

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 cggccaatct gtctctgaat gattattcca tttggagcaa cagctacagc tccaagaggc 180
 ctgatcagag gaggaacttt gatgtcaagg gcagtgattt caacaactca tcaaagcctt 240
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tgctgacat caacaacact cacactcttg aagttggagg cttcaacaag ggaggaatct 360
 attacaacac caacaccagt tactacttat atgctaacca taacaacaac actcttggag 420
 gcttcgacaa gggcaattat tccaacacca catactcgcc ctatcttaac ctttaaca 477

<210> 6656
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h08d1

<400> 6656

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 taccaaatac attttaaagg gttggaattc agcataaacg tccccacca tattttaagt 180
 ggccaatca tgctcgaca ctttaaattt atgggccac atgattcatt cattatccaa 240
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 aagggcatcg aaactgtcat gggtagcaaa aat 333

<210> 6657
 <211> 396
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220080h09a1

<400> 6657

ggagaacttt acggtgcaga agatatgtgt tatggataca gcacaagatg aagcccaagc 60
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 tgagacacgg cgctgcagca gtccctcttg gtttttcccc cttccatgca tgatcgctcc 180
 tgagcatacc ctgtgcgcca ctcttgtgtg cgtgcctact gacctctcct gcgcatgtat 240
 ggcatacacc agcgacatt tcatcaacaa ttatgtcccg ggcgtgtttc acaccgacgg 300
 ggcaattgag tggagccccg tgtaacacaa cgcacgggag tgtgtgtgat tctggttgag 360
 cagcagagta ccagcgacg ttgcttctgc aatacc 396

<210> 6658

<211> 171
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h09d1

<400> 6658

ggccaacgtt atttagctga tccgtcgtaa ctcaagagag acagacggaa aaaccttcgc 60
accgcagagc aaacactgga gtcccgcccg accctaagag acccccttag gcccaatcca 120
atctgagact ctgagcacca aagcgacgct gatagagaca gaaagcgacg g 171

<210> 6659
<211> 258
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h10a1

<400> 6659

tatggattgc ttcagctcta tatgctgctg ttaacatcgg acagcatcca tatggaggtt 60
caattctgaa taggtcaact attagcaaga gactcatgcc tgagaaaggg gtcctgaat 120
atgatgccgt ggataatagc cctgagaagg agtttctgac gactatcact ggcaagacag 180
agaccgtcat tgcccttacg cctatagaga gagcatcctg gcacgcattg gatgagtttt 240
accgtgcgca gagagatg 258

<210> 6660
<211> 163
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmf102220080h10d1

<400> 6660

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gtcggctgcc gacctttttc ttgaaatata tgttaactta gctcaaacct ggctgatgac 120
gtggataata atgaatagca tttcacactc atggtcactt act 163

<210> 6661
<211> 350

002220"ETTTE560

<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h11a1

<400> 6661

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ttggagaggc aagactgcag gtgttacgcg gtgttggaaca cgtggaatgc gcgtatgagc 120
tttcgcagga ggagttgggc acgaagatct cgtgctgtga cgctcatata gtgaggagct 180
gcacaaacgt gacatgggaa gtgtttgaag ctgccaaagg aaggttgtag gttgtgggaa 240
gagccggcgt ggggattgac aacgtggatg tgcaagcagc caccgaattt ggttgccttg 300
tcgataatgc gccaaactgca aacactattg ccgctgacga gcatgggaat 350

<210> 6662
<211> 492
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220080h11d1

<400> 6662

gcacactact agctgcaaac agctagtttt attctgaatc atccaatcca aattatatta 60
cattcgcata ccatagcttc aagtttcttc aaattgtcca tcaaaatacc tcttctacgg 120
agaaaaacag atctagatca tctgaagtgc atgtgcactt gagaattgtc aaaaaaacia 180
aaacatttct ttataaccaa aatagtagct attttacttt ctaaaacgta ccatccatag 240
atggtaggta gatacgcatg attgtttgta taccattaca ttatcaacta gtactagagc 300
ttgaggaaga cgaactcttc aatggcagac acggctccaa tattgtcaag agcctccttg 360
tttggttctt catcgacacc aatagccata atagccttgt tctacgcga tgtccttccc 420
acactcataa agctcacatt cacgttttgt tcaccagta tgtttccaac acgaccaatc 480
atgccgggct ga 492

<210> 6663
<211> 509
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220080h12a1

<400> 6663

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 tttgttcttc ttggagttga ataatgcctc actcattttc tgtgtacttt ctgagagtac 180
 tatggatgat gtgcttacga cctgctaggt tgtttactgt ctggtgtatg gaacactgta 240
 ggatatgctg cgcaattgac actctttgca gggacgttgt ttgtgctacg aaagaatttt 300
 agtggctgtg accgctctta tatttaggcg cgggacaaat gtgatatggg aagtgttcga 360
 agctgcctaa ggaatgttgt aggttgtggg aagagtcagg gtggggattg acaacgtgga 420
 tttgcacgca cccaccgaat ttggatgtct tgttgtttat gcgttaactg aaaacactac 480
 agacgattgc gaacatggga tcgctcttc 509

<210> 6664

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220080h12d1

<400> 6664

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 cattcgcata ccatagcttc aagtttcttc aaattgtcca tcaaaatacc tcttctacgg 120
 tgtaaaaaca gatctagatc atctgaagtg catgtgcact tgagaattgt caaaaaaaca 180
 aaaacatttc tttataacca aaatagtagc tattttactt tctaaaacgt accatccata 240
 gatggtaggt agatacgcat gattgtttgt ataccattac attatcaact agtactagag 300
 cttgaggaag acgaactctt caatggcaga cacggctcca atattgtcaa gagcctcctt 360
 gtttggttct tcatcgacac caatagccat aatagccttg ttcctacgcg atgtccttcc 420
 cacactcata aagctcacat tcacgttttg ttcacccagt atgtttccaa cacgaccaat 480
 catgccgggc t 491

<210> 6665

<211> 492

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220081a01a1

<400> 6665

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catgaggatt ttttaactctg atggtagtga gcctgagatg tgtggcaatg gagtgcgatg  120
ctttgccaaa tttgtttctc agcttgagaa tttaacatgg gagggatagt tttaccattt  180
atactggtgc tggctctgatt attcctgaag tcttggagga tggaaatgtc agagttgata  240
tgggggaacc aattcttaaa gcctcagatg tgcctactaa attacatgca aataaggata  300
atgctgttgt taaatcagaa ctagttgtag atggagttat ctggcatgtg acctgtgtca  360
gcatgggaaa tccacactgt gtaactttca gtagagaagg aagccagaat ttgcttgttg  420
atgaattgaa gctagcagaa attggcccaa aatttgaaca tcatgaagtg tttcctgcac  480
gaactaacac ag                                                         492

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<210> 6666

<211> 488

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220081a01d1

<400> 6666

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aaaatagtaa gaacaagcag aaagtccacc ttcatacaa atattattca gcaattccta  120
attccatatt gggtttaaca atgggggcaa catattaaag gggcaaagat ccgtaataaa  180
ctacatcggc tgagcctgtc atataaacat gattatcttc ctccctccat tcaatctgaa  240
gaggtcctcc aggtagatca accgtgcaat tcctcccagc acgaccctca agaactgctg  300
caacaacagt agcacaagct ccagttccac aggctagggt tgctcctgct ccccgtccc  360
agacacacat tttcaagtga gaattagaca acacttgtag aaactctgtg ttagttcgtg  420
cagggaacac ctcatgatgt tcaaattttg ggccaatttc tgctagcttc aattcatcaa  480
caagcaaa                                                         488

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<210> 6667

<211> 556
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a02a1

<400> 6667

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 atgtgcaata tatagactcc cagatgcaca taaacatatt acccgaccac cacaaggagt 180
 taaattttcca aaaaagattg ttgaaattgg ggatctaaaa cctgaacctg ttttgtggca 240
 tgaagattca ggcaggagac accattctga aaatgggagg aaaaaccctc caggatctat 300
 ttctgggtcgg gagcttgggg atgcagcaca cagactcatt gtcaattcct tacaggcaaa 360
 ggttgatact aatggatacc gccatccgca taatggacct cctatatctt atcctgcacc 420
 catgggtcat tatcgacaac cagtgccttc gtatggttat gaatccagcc caggatatgt 480
 tgcaatgccg ccacctattt cagcttcttc actccaaggc agaccacagt ttgcacctta 540
 caaatgctgc cctact 556

<210> 6668
 <211> 420
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a02d1

<400> 6668

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 actgatctat tcaatggaaa attggtcaag tattgtctca actagactta ataggtgaaa 180
 tacaagtaca actctcaaac ctcaactaat tgagagagaa aaagatttgg tacaacaatt 240
 tttaattcgt agggagaagaat attccctgaa cgaaatgaat ttatttgcca ctgtcaccag 300
 gtgggggcat tggattcctg tticctcttc tatctaataa agaattattga ttggatgaat 360
 gatgaccata atccctgtgc ccaactcgggt tgtttgggtg agtccaattc tgatgagctc 420

<210> 6669

002220"ETT560

<211> 209
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a03a1

<400> 6669

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aatgccaggg tctcgccaca tcagaaagga gcaatttaca tccagctgca gttccatttg 180
ccaaaattcc aaaagaattt gaagggctt 209

<210> 6670
<211> 470
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a03d1

<400> 6670

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cacggctgca acgaatgaag atatatctct ctcttctcac ctctaattga ccttcaacta 120
ccaaaagttc aaaaccttgc tagtcatata ttgctaagat taaaactaaa aaatattaaa 180
cggcttggtt gcgcggaact gagatatcaa taacaaaagg ccttcataaa agtctatttt 240
tcatgaacaa gagggcaata ctcagggtac cacatattgc ctcggaacata ctccacggtt 300
tcttcttttg acatgtttgc tagctctttg aacctacat caccatgtcc ttcagcctgc 360
ttttctgcaa ccgctgcatg tacaacagca gcccacact ctgctgtaac atctcgtata 420
cagtcaatgg atgggtacaa gattcccttt tgacatcctc atctgtcatg 470

<210> 6671
<211> 415
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a04a1

<400> 6671

cccatgataa cctttgtccc aacaccatgc tgatggctgc tgtagctcta gcactgctta 60

tgaatggctt tcaatggcac ttcaagtgt acatggagcg acagcacgga tggaagcgac 120
gctatcctgc acaaaacctt ggactatact tgcggagctg agacattcta gtataacgct 180
ccaccgaact gtgcgcgctt aatgagccca acatcgggta atagccatct gactacgca 240
cctgaacagg tgcttgcata tggaggctga atatcatggg ttctgacact ctgaggaaac 300
actcgttatt gctgtatctg agcccagcta tagatgaact catgtgaagg ctgctagtgg 360
cattgctaag agccctggta ccacttccgt gactacaaca ccaaccaagg acacc 415

<210> 6672
<211> 350
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081a04d1

<400> 6672

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cacctttata tgccacaaaa aattacgagg ggcaatagtt gcataatata acttgggtct 180
ataatatcga gttgaaaaat tacatgtcag gaagagctga aagggttcac cgcacccctg 240
ccttttgtac aataataact tccttggcga agattggggc ccgatggatt actatattca 300
gtatttcacc gacctgtaa ctgcccttc tggtaagaa cgaaaccctt 350

<210> 6673
<211> 349
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081a05a1

<400> 6673

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gaaggattac ggctgacaat gccaaaacca atatccatca tatgatatgg ttagcgcacg 120
cgcacaaaca cacggttgag gtacatgaaa tctcccgaac cctagtttta ggtcagaggc 180
taaagaccag tgccgtctta atgaagctta tgtgcacacg taaaagactg cgtcctaacy 240
gagtggcgaa cgataaaatg ttcggtctca tttgggaacc accagcttcg gcgtggcggtg 300

tcatggaagg cggttaagcct actatcatca ccaacgtggg cggccagag

349

<210> 6674
<211> 487
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a05d1

<400> 6674

aatcatgtca atcgattggg cccctctcca acttattaat aagaatataa agatagatta 60
taaaacaggt aattcttggg ttgataatga taattgccat cactttttaa ccccgtttag 120
gattgcctag actcttaatc cgattgctaa ttgatttcca gaaataaact taactattca 180
atgccaaatt taatctgact tattccaagg ctcatgata gatggaccaa tacagcaagg 240
atgaatgttg gacttctaca acagccactt gagctccttc aaaggttctg aaaatctttt 300
taatttgctt tagaactaat cttcctcttt gcaaatgacg gcaaacagaa agctgctgta 360
tgaatctcag agttgtaaaa tttcagtggg cttactgact tctgactctc attttcatct 420
atgggattaa ctggatgctt gaaatcaaca ggtggtcctt cagttgagca aagcataaaa 480
ccaatca 487

<210> 6675
<211> 559
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081a06a1

<400> 6675

tggatttgca acaggtttct gaaattatct tagaaagcaa aggaaaatta aacgaaaaat 60
ctgtatctac tgcattgcgt ggcctttctg aaagttctgt acaagaagct agagatgggtg 120
acagaagcaa gcagctccag gaagttgggtc ggggagtga tgggtggtgaa attgttgatg 180
ttaaggtcag ttctgttgca gaagttgagg ctgaagcaac tgaaaaattg tcacatatag 240
ctgtggaagt ggatgtacag agtgataatt gtactgctga aggatcgagt ggtgggtggac 300
ggacagctgc tgatcttggt ccgtctgatt tggcaagagg aaaagatgag aatgtactcc 360
attcttctgc ttatagtgtt gataagggtc ctgaagactt gactgaacgg gagtctgaaa 420

aagctgatga tgttgatgct gagaatcttc ctagtcagtc taaaaaggaa agaaatgagt 480
 gtgaaagtga taccttgaca atgcctgaga atagagggtc atgctctatc gcgactgggt 540
 ttgctgctga acatgtgga 559

<210> 6676
 <211> 461
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081a06d1

<400> 6676

ctcaatgaaa atgggacaga agactgccca cagagaaatt gcaatagcat ttattccttt 60
 atcatttaaa tatatttggtg aacgaaaaaa gtaacccctt ccactgaatc acattaggat 120
 aacaçaggat atattttctg atcctcttgc acaagggaca aagtgttaca aacatgtgaa 180
 tatacaaatg aaaacactta caagcattgg tgggcattag attgtaggaa tataaatggc 240
 tatggccatg aggatagatt gtggccatcc caccacccat aaggctcgtt cctcttacag 300
 aactaccag ccaactggat ccttgcttgc tcttcagctg gggcctgtga actaacaaca 360
 gaaagttgcc tctatggaag aggagaattg tcagatgtcc cctccatgtg tgaacctaca 420
 ggtcccgctg taagatctaa accctgcctt gcccatTTTT t 461

<210> 6677
 <211> 333
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081a07a1

<400> 6677

ctattctttt atcaaaagga ctgaacgaaa aaaccttagg gctcctgtgg tcttcttggc 60
 cccccaagaa tttcctggca tccagaaact accggttgc atagcgagct tcactcctgg 120
 atttccacta ttacccaaac cctgtttgtc ggacagagtg tcagagagag acccttgaca 180
 acatggcaca aactaggcca agcagaggag actcggattc ctgctccatc agatgcacca 240
 acacgagacc acgatctggg gactgtgtgc tgatgcactc ctctgatacg agccagctca 300
 ccgtacgtcg ggcgcgggga agagatcgaa cat 333

002220'ETFE560

<210> 6678
<211> 457
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081a07d1

<400> 6678

aaaaataaca aagcaatcag aataggaatt gaacatacaa gaggaagcaa agctatcttg 60
ctttggctta atttatacca tgaatgaatc actgtcaatg tgatcatatg aacatacaag 120
aggaaacatt agaaatgtta tacacagact tgaaagaata taatcacact tataaggtca 180
ctgtgatgtg catgcaatac accaaaacaa ataagaaaca acttgagaaa aatactttga 240
ctgaagctga ttttaatttt ctttctgtgt gaaacttgac actggtctta ggccatgttt 300
gagtgtgctg tcccacacaa gatcgattct gttaacatct atggccccaa cttcgggatg 360
agaccaacct tcaaggctat gtaccactcc tcttgcattg cacgcgtgaa ccaactccct 420
atccatcgtg tactcacaac acccaagtcc ttccacg 457

<210> 6679
<211> 380
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081a08a1

<400> 6679

caaaacagca tattgtgggt ttgtcttctc tatatataag cgacgaaggt tttcattgac 60
agggcgtctt cggttgccat atgatgatat cttgctctgg gtcctcaaca cataccggtt 120
taatagaaaa taaaaccaga gtctgtgggt tgttaaaact aaggcatccc tttggacca 180
tcagtagcgc tactactgtg tggacacgta tgtggcttgt gaaggaagcc tttcactagg 240
tcaaacaagg aacaagacat gccatttta tgatcatcgt gacctattat tcagaagaac 300
cccagtgtta ttcttagcac caggcctagg ccatgtgaca acactcactg atcaaaccat 360
tgctttccct gtggcgacag 380

<210> 6680
<211> 392
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081a08d1

<400> 6680

aataacaaga acaagaatac attatTTTTT ttcattcttac atatgtacaa ttgcaagcaa 60
 tcgcacaact tgagagttat acatatttca cctccttcac tctttttacaa cattatatta 120
 tatgttttcc aaccattaat cactatttaa attgccccac agtattgttt tgccttgtct 180
 attgccactg atacattatg tcatgacaac aacaatagta ataatgaaag cctagaacca 240
 attaagattc ctttggccct aactagccca aagcatgttt aatcattaat cacttgcacc 300
 ctgcagcacc aaaccaatt gtccacctc caacattata cacaacctat attgttctct 360
 tgtgcacgtt cccatatata ggaacatcac ta 392

<210> 6681

<211> 503

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081a09a1

<400> 6681

cggacctctc tcttcttcag tgggtggaagc tactagaaca ctagtttggt gagcactgcg 60
 atgaggaagt ggacggttgc ttccgctctc cttcttctct ctctcctctt tctctttgca 120
 gatcaaggtc gaaagtttca ggcgaatgcc gagggagatt ccgacgagct tgtagatcca 180
 cccaagggtg aggacaagat cgggtgctgtg cctcatggcc tttcaaccga ttcagatgtc 240
 gtcaagaggg aggcggagtc gatctcgaag agatctctcc ggagcaacgc ggagaagttt 300
 gagttccaag cggaagtgtc gcggcttatg gatatcatca tcaattctct ctacagcaac 360
 aaggatatct tcctcagaga gttgatttcc aatgcttctg atgctttgga caagattagg 420
 ttctctcccc tcacggataa ggaggtgttg ggagaagggtg ataacaccaa gcttgatatt 480
 cagaataagt tggacaagga aaa 503

<210> 6682

<211> 463

<212> DNA

<213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmfl02220081a09d1

<400> 6682

ctcgccagat agatcttcgc gcgaggtgta gccttcacct gcacgcccta ccaagagaaa 60
 gtgcgaccac agctccgac gcgaacgcta agactgagat cgctattacg agcacgagcg 120
 tcaatatcag acccgctatc tacgatcaga attcttattc aggacgccat tggtagccgt 180
 cggctaagct tcatccgacg atatcattcg ttgccggcat ccgccgccgc ggatggcaag 240
 caaaaggcca gcgtgttttc ccgcataagc ttccctgctg aagaggaact tgctaagaag 300
 agaaaagtca ccgattcttc cacaacagaa cctgccgctg ccgctgncga tgccgccgac 360
 ggtccactga ttntttggca cacctgaaga caatgtcgaa cgggtactac gaatggagga 420
 agagcagcag cgccggcgcg gactactaat ctacgcacga cga 463

<210> 6683
 <211> 534
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081a10a1

<400> 6683

cgacacacgc cgtgcggatt acgccccgta cgctaggctt tcggctcgag ctcatatcag 60
 gggtagcta ctgtcatgca atgcaagtat gccatcgtga cttgaagttg gagaacacat 120
 tgctggatgg tagtccagct cctcgtttga agatttgtga ttttgggtat tcgaagtcct 180
 ctgtgcttca ttcacaacct aaatctactg ttggtacccc tgcatacatt gtcctgaag 240
 ttctgcttaa gaaggaatat gacggcaaga ttgcagatgt gtggtcttgt ggggtgacct 300
 tatatgtcat gctggtgggt gcatatcctt ttgaggatcc agaggaaacct aaaaatttcc 360
 ggaagacaat tcataggatt ttgaaagtcc agcactcaat tcctgattat gttcatatat 420
 ctcccagtg ccgtcatcta atctcaagga tctttgtggc ggaccctgca catagaataa 480
 gtattgccga gattcgagat cacgagtggg ttgtgaggaa cctgccggct gatc 534

<210> 6684
 <211> 436
 <212> DNA
 <213> Glycine max

[illegible]

ggggcggatg	ctgtcgatat	aacttctoga	cgttccatgc	acctatacct	aaggctcgga	60
ctttggttcg	tgaaaaaat	taattatfff	ttttaatfff	ttttattaa	aaaaggga	120
agactgccac	ttaataatat	aacaccacca	caacttttaa	tacaaatcaa	catggggtct	180
tgaacggccc	ataaaaatat	aaccgggaat	tatattcgga	acttaaaaa	aaaaggcaac	240
ctttttacca	gaatcctacc	ctttaaatgg	gaaacctfff	ttttcccaca	tattccaaac	300
ccggtgaaaa	acccatgctt	ttctatfff	aaattgatca	aagaactcaa	ttcgaattgt	360
ttgccacccg	gttacattga	ataaactatt	actcccatga	tattaatggc	ggggccggga	420
tccgttttta	gggcct					436

<213> Glycine max

<400> 6685

<212> DNA

<213> Glycine max
 <223> Clone ID: jC-gmf102220081a11d1

<400> 6686

tgtggtcgtc cttttttttt ttttttttta agataaaaca aatttcttag aatacttggt 60
 actgagttta acaatttctt taaatttaag aaactacaaa attgtgaaca tgtctttgac 120
 aacaaacatt gcacacaaga aaaactaggc actcagctac tatgaattac ttctacagtg 180
 tataactttt caagcaacag ggacctgcgt atcattagca gccaaaactg gagcaggctg 240
 gatgtcttct tcttctctct ttggagaatg gattgtgaca agatcaggga ggggagttat 300
 aggaccctgt ttccccttag gatcccaatc aagcatgac ttcaccttaa tgcccagaac 360
 accctgtctc aagagcacat gttttactgc agagtcaatg taatctttga cagggtgccc 420
 agaagaaatc atgtaaccat ccttaaactt catatatttg gctctctggg ctctcaagtt 480
 tccactcaca atgacctcgc atgccttagc accactctgc atacaaa 527

<210> 6687
 <211> 406
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a12a1

<400> 6687

acaccccaat cgtagccgtc gcactttgcg ttcactgcgt catctccggt taccggacaa 60
 tggccaccca aatgagcaag aagagaaagt tcgtatctga gggagtgttc ttcgctgaac 120
 tgagcgaggt tctgcatggg agttagtcga cgacggatac tgcggcgtgg aagttatggg 180
 tacgcctatg cgcaccgaaa tcatcatccg agccgccata accgaagccg ttctggggga 240
 gaagggtagg agaatcctgg cactctctc ggtggttaag aagaggttcg agtctgccga 300
 gaacagtgtt gagctttatg ctgaaaacgt caacgatatg ggtctttgcg ctatagcaga 360
 tgctgagtct ctccgctaca agctccatgg gggcctaact gggctc 406

<210> 6688
 <211> 286
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081a12d1

<400> 6688

tttggtcgtc cttttttttt ttttttttagc caaaaaaaag gggcactaac acataaaatt 60
agaggactga tccaaaattc aatatgcggc ccatggccta attccatgac taaaactgtc 120
aagctccatt gtactctcct cctaaaaggc tctgatgttc taatacaagt atttccaatg 180
aaagacaaac tctctcgagt gatactttct tggattctca gacggagcat tattcagaag 240
tgaagctaca cttttgtggg caaacatgg gaacgtacta acaagg 286

<210> 6689

<211> 522

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b01a1

<400> 6689

tacaaagga gcttacaac ccgagtctga ccgttcttgc atacatttgg aatttgatat 60
atcagggact ggcttaacat atgaaactgg agaccatgtg ggtgtttatg ctgataactg 120
cgacgaaact gttgaagaaa ctgggaagtt ggtgggtcaa gaattagatc tattgttttc 180
tcttcacact gataaggagg atggcacttc cctaggtggt tctctcctgc ctcttttccc 240
tggcccttgc aactgcgta ctgcattagc acgctatgct gatctcttga accccccacg 300
aaaggctgct ttagttgctt tagctttctca tgcattctgaa cctagcgaag cagaaagatt 360
aaagttcctt tcgtctcctc aggggaagga tgagtactcc aaatgggtgg ttggaagcca 420
gagaagtctc cttgaggtga tggctgagtt ttcattcaacc aaacctccac taggtgtttt 480
ttttgtgcag tggcccttg ttacagcctc gttattattc ta 522

<210> 6690

<211> 493

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b01d1

<400> 6690

acagtgtaga acatccactg tattttttttt aaaaaaata catgtttcat taataaaata 60

attattcggtt accaattcct acacttaata atacatgacc atccactgta accggtattt 120
 gtttaccgat ttctgagact aactatcaca gagtcccccg ataaataatc ccacttcaga 180
 gggatccaac ctatcataat aagagaatat aaagataaca gaaaataaaa gaaaaaagg 240
 taaatgtcca gaaaagcatt tcttctcaag gaaacctgtt taacctccac tgttggtgtc 300
 ctaaatttcc ggaaaggcag tgactaatct caagaatata cttcagccaa tcctgaattt 360
 agcatatcaa atagcaagga taccacaatc tgggcagaag aatgatcaga aaaatcacca 420
 cacatccctt aggtaacgtg catccatctg aagttttttc actatagcct cagcctttgt 480
 cgagtccaca ttt 493

<210> 6691
 <211> 466
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <223> Clone ID: jC-gmf102220081b02a1
 <400> 6691

gcggaacttt gagtcctca atatcaggaa gtaattaagt aaaggttggtg tctttttgtt 60
 gttatattct gaattatgac actcctgaga tgcaagatca ctttttattc aagaatagtc 120
 tcaagcatta tggaaagaaa cccaagagtt gaggtcataa tggcatgata tcctgatata 180
 agttttggac aaaggtggac ttttttctgc cccagaatt gttgtttcac caggtttctc 240
 agccactgta gcgtgttctt aagacgtgcc gaagagaatt caactgaaat tcttttaata 300
 tttaattact gtactagatg agacctaagt tgtagtacgc tccatgatac aacaccatgt 360
 tcttgtttct taacaatgag gtccaacgct gcctgcatgt tacatattna aaaaaaaaaa 420
 acaaaaaaat tcaaanataa ttaaatcaaa aaaatgtttt attaac 466

<210> 6692
 <211> 437
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081b03a1
 <400> 6692

ggaaaactga caatgctgga ggggagtata caaccccac tgcacacggt ttcataacta 60

aaccgccatc gctatcttcg actttctgcg ccccaaagat gagaagacgc accgtttacg 120
catggctcgc agcacttata tgcgttctag tgctcatgat cgagatctca tccatccctc 180
agaccaaga ataccatgat ttcgccgacc accgcgcctt cctcggtatt actaatgcac 240
tgaacgccat atccaatttc ctttctatgg ttattggcct tcgggggactt gggctctgtt 300
atcatggaaa ttactctagg ctgagctggc aaggtgaact atgggggatgg gcatgctttt 360
atgttggcgt ggctgcagtt gctgatggat ctttgttcta tcatctgacg ccagatgatg 420
ctcgacgtgt gtgggat 437

<210> 6693
<211> 249
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220081b03d1
<400> 6693

atcttaggtt agttcatttc aaactatgat acatcataca agcgagaact aaattgtgca 60
actgttggac attccactgt gaaaatggag cacgcatatc atttaactac cattgtaaat 120
gcacaaataa caatacaaat tgatagtgtt acagctgagg aaaggcacct gctcaaagtg 180
ccatctcagc ctgcaaagct gccaatcat cttcttcagg agttcgcttt gcaggaactg 240
ggcgagtag 249

<210> 6694
<211> 201
<212> DNA
<213> Glycine max
<223> Clone ID: jC-gmf102220081b04a1
<400> 6694

caaaaaaact catttctgga tgcttgtgaa tatgccccac tggccttcta tatacatatg 60
gctcgctctc aatgcacaaa acattatgga gcccatggag gaaatgggga aaaacttatt 120
catgtttatg agaacgtttt ggataagcat gctgcatgat cggacacgaa tcactacggt 180
agtatttaca catccgagac a 201

<210> 6695
 <211> 490
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220081b04d1

<400> 6695

ggcgagaaac aactaaacaa taatttattt ctatacacac tgaaaatata caacgaccac 60
 actgaaaata catcaatgca atggcgtcac tcatttcta ccaaaaactg acttatagaa 120
 aggaaagaaa tgccatgaag taaaaaggaa aaccaaataa aacggacaaa catattccag 180
 actcaataat ttttctacct cctcaccaca tggtagcaat ttgaacatca ttgacctcac 240
 tcacatgaca atctccggct tcagaatatt tgacttgatc tccttgtgcg gcaaaacaac 300
 accaccattg ctgtaaattt catcacatac atggacatct tctccaagga tggtcattat 360
 tatccactcg agccattgac ccaacagttg aatgccaccc aacaatactg ctggatacac 420
 aagcatgctt ctttaactcg actccacgca ttatngtgca gcttttgagt ctaacacctt 480
 gctcaataac 490

<210> 6696
 <211> 493
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b05a1

<400> 6696

gtagtgtgca aaataaaact caagctccca gattctgttc caatgcctcc cgtaccaatt 60
 tgccccatca aagttgggca cattgatgat gtccaagagc taagaaaaac caagccaagg 120
 acaattcctc aaagatttgt acgagacttg acagaaagac caacactcac tacacctctt 180
 tccccaccac atagtgcacat gccagtcatt gattttctta agcttatcaa agggaacaaa 240
 gaggaagtcc tcaactgaact ttttaattctt gcaactgctt gtgaagagtg gggatttttt 300
 caggtaatta atcatgaaat tgacctcaat ttgctggaga gcatcgagaa cctgagcagg 360
 gagtttgtca tgctaccttt ggaagagaaa cagaaatacg ctatggcttc aggaacagta 420
 caagggatat gacaagcttt tgttttctca gaagacaaa aactggactg gtgcaacatg 480

attgctcttg gaa

493

<210> 6697
 <211> 528
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b05d1

<400> 6697

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 tctaaattta ccaagaagct ctttttgaac agaagaaaag aaagttgaat actctcacta 120
 cccccgtcca catctttcag ttagtactat atatacacac aatgaacaac cgaaggtaga 180
 acctgctgaa atatgaacaa gacatgcccc atccctgaac ctactacctg taaggcctat 240
 ctgtgctatg cacatgttct ttcaggccaa agcaaaaaaa aaaggagctt ttgatacaca 300
 tctaattctga ctaatcaa ataatcagat ggcaactggca agccgcttct gaagcaacta 360
 ctaccactaa cgtagtgac ggtctcatct ttgcagggcc cactgcattt gagttttgat 420
 tcacagttct ggcatttcag gcaaacaaaa cgagctggaa caggatcagt atcatggatg 480
 tcagaacacc tgggtggtgtg gcacactgca catatatgac acgccaac 528

<210> 6698
 <211> 619
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b06a1

<400> 6698

gaagaaagac cttttctctc aattgcagag tcaaagtta aggcctaagt tctctcaact 60
 ctattcaac ccacttcac catcaacttc ttccttttct tcaccccgta cattcacaac 120
 cctggctctc ttcaaactta agacaaaagc cgctcctgct aagactaagg ttacaaagcc 180
 aaagcaaaag gttgaagatg gtatctttgg cacttctgga ggatttggtt ttactaagca 240
 gaacgagctc tctgtgggtc gtgttgctat gcttggtttt gcagcatcat tgttggtgga 300
 aggaataact gggaaaggaa tcctagcaca attaaacctg gaaactggaa tttccattta 360
 tgaagcggag cctcttcttc tgtgtttcat cctcttcacc ctgctaggag ccattggagg 420

tttaggtgac cgtggaaaat ttgtcgatga cgaacctact actggaggtg ttattccttc 480
aggcaaaggc ttcaaggaag cccctgggct cggttcaggt cctttattcg gattcacgaa 540
agcgaacgag ctatttgtgg gaagattggc ttaattgggt tcggttttta agtgattgag 600
aaattatacc gaaagggag 619

<210> 6699
<211> 418
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081b06d1

<400> 6699

acgacgaact caatgcattt tatgatacat gaggaacga gtattttaaa cacaagcaaa 60
caaaaggggt agcgtctaata catcctcccc gtcattctgac cccaatatgc cagtttcagg 120
atacagagca gcaatgaata aaaggagaac gttgaacaac actatgggct agatttcatt 180
gattggtacc ccctggtaaa tgtaaaaatg gggtaaagct cccttcccag gaatcatttc 240
ttccatcgcc gacaaaacaa aaccaattg agccgggtctc cccacaatat agatcgtagc 300
ctttcacgaa tccgaataaa ggacctgttc cgagcccaag ggcttccttg aacctcttc 360
ctgatggaat aacaacttca atactatgta cgacatggac aaatattaca tgggtacc 418

<210> 6700
<211> 474
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081b07a1

<400> 6700

tttcaaactc tgagaaagaa tggctgccaa cacattgatg agtactgcta tctcagcctt 60
cccatctctc ctttcttctt caaaatccag atttgccacc gcagttcctc tttctagctt 120
tgggtgcacc aatgcctctt cttctcgctt ttctatgagg gctgactgga tgccaggcca 180
gcctagacct ccttaccttg atgggtcagc acctgggtgac tttggattcg accctcttcg 240
tcttggtgaa gtaccagaga atcttgagag gttcaaagag tcagaactca ttcactgcag 300
atggggccatg cttgctgttc cagggatttt ggttccagag gcattgggct taggcaactg 360

ggtaaaggct caggaatggg cagcagttcc tgggggccaa acgacctacc taggcaatcc 420
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<210> 6701
<211> 401
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081b07d1

<400> 6701

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ccccccatta atttaaact tgaattttta agcattgtaa ttggaggctcg ttaatgtaca 120
accatttgac agttctttta ttgggctagg aaagttgggt caagggatga taatgcagca 180
acagcatggg gttacaagaa aacaaagggt tgaaaaaaaa aaaaacaaaa aaaaaccctt 240
tttgacttaa ggtgagcata ccaaattccc tggattttga cattttttgg ggcctttgct 300
cccaaattaa tgtcggacgg gtgaaaactt tggaacacac cgataacctc gccggtttaa 360
gggttggctc tggggacact gaaggggatt tcccccttgg a 401

<210> 6702
<211> 451
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081b08a1

<400> 6702

ctcaaaaaca taattaagca ttaacattcc acaccttttc acacacacac aaaaaaaca 60
accctctaaa atctaagcct caaagagtgc taaactttgt tacaatgaac atgttaggcc 120
ttagagacct agttttcata gctccaactc cttctggact tcaccaccat caacaacacc 180
gacccattta agcagaacac cattcaaacc ttcctttgcc ttcacacgcc tctatcagtg 240
ttggtcttgg cattttccct ctactaacag tgccacacac caatgatggt caagttcaag 300
ttcaagactg tgccaacaac aacaacaaca ccgacaccaa ctattggaac ctgaagatgt 360
gtggtgccac tgaagtgaat tccacacgaa aaggtgttat gaacatggag gatgagggaa 420
gcactaagca aatgatggag agtgaggaag g 451

<210> 6703
 <211> 492
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b08d1

<400> 6703

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 cgacacatgc accacctagt aatcataatt ttacatcttt acatacaaaa tacaagact 180
 ttaaatttta aaaagaagaa aagagataaa cagatcatct taatgaaatg aaacccaaac 240
 ccacaaacat tggcttgatt tttgttggtg ttgttggtcc caacttgatt aagcatgaac 300
 cgtttgattg aatcacttg acttgaaggg aatggccctg attacaacct ggtggtagag 360
 tgctgcaaga gctgcaccga tgaatgggtcc caccagaag atccagtgtt catcccaacc 420
 aaggctcctg ttgaagatga tagcagcacc aagactacga gcagggttga taccagttcc 480
 ggtgatgggg at 492

<210> 6704
 <211> 354
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b09a1

<400> 6704

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 tgggaaatag aattagctgc tggtatacac tacaatggaa acatgaaacc ggggtttgaa 120
 aaaatttacc tccaaatagc cgagggttat tggacaacag catgtaagac gtgatagtat 180
 agtgtgttcc gcgagaatgc aacatgaatc cataaaatac ggatcttggg gcacgtgtag 240
 ggtttgccat ttatattgag ggtgcttaca atttttgtac aaatatctaa aggcaagatg 300
 taattagggc gtctcctgcc ttggaaatga aaagggctcg ggttgacatc ttag 354

<210> 6705
 <211> 303
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b09d1

<400> 6705

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 tgaccacta cactgattac acctcgacc ggcttcacgt cagcgagaat aacccgagtt 120
 taccgggtga gacgcacaaa cagccaggg gcgactccag ggcaacggct actatgactt 180
 cggaccaggc tcttctcctt gcaaagtcta tagatgaaga gcacatacat gggctggcga 240
 cgatcattta aagggtatgc taagagtgcg tcaccattac taagatgata gtgctgagca 300
 tgc 303

<210> 6706

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b10a1

<400> 6706

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 tctcttaaag cctccaaaag ctgcaatctt tcttcttcta ctgattttgt tccctggctc 180
 tccagtgaac cttgcatgtt tccagcccc ttttgattgt tttccactag aagcagtgtt 240
 ttctgctaag agttaggagg ttctaattggc tgtgctgatg atttttcaca tgtgtgctgc 300
 aatagctctg cctgcttatg gagatgcttt catcgggtgc aacattggta cagatgccac 360
 caacatgcca agtccaacag aggttggtgc ccttcttaag gctcaaggta tccaacatgt 420
 tagactctac gatgccgaca gagccatgct tcgcactctt gccaacacag gaatccgtgt 480
 aattgtttct gatccaatg atca 504

<210> 6707

<211> 380

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b10d1

<400> 6707

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 accattttttt ggcagggtgct aagagaatgt taaacctgac gctggagttc catcagccat 180
 tacgatgcat ggtcacaggc ggtcggctag aactaaatga gcaacctcca gttacagttg 240
 acattgtctt ggtgaccaac ctgcccaccc tacatatcct ggtgctcagg atcacaaaat 300
 ggggtgctgcg ctgatcattg aaacggtcga tccagagtga ctgaccattc atgagaacgt 360
 ctatctgagc acgatatacg 380

<210> 6708

<211> 421

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b11a1

<400> 6708

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 gcttttgatc agaacagaag gaagaatcac ttagtataga tggttgcaga tcactattct 180
 cctcctctgt ttagtgtggc tccaatgatg gactggacag atcatcacta taggactttg 240
 gcacgcctca tatcgaaaca tgcttggtc tacacagaga tgcttgacgc tgaaacaatt 300
 gtatatcaaa agggaaacct gattattggc gttttctcca gatcaacatc ctattgtgct 360
 ataaatcgga gggagttatt ttttatattt ggcaaaagca actgaacttg ccaatgcttt 420
 c 421

<210> 6709

<211> 328

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081b11d1

<400> 6709

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atctttataa gataattaat acgcactatc atatgaaggt tgatgggggc gccgaacatt 120
 gcttttgaaa aatcctgccc ctgatacatg aactaccaac ctttaagtgtt aaaacaaaag 180
 cgccacaata acacgctttt acttcagttg caattgaata tctggcataa tatgggttac 240
 agactaaatc tgaactcgat ggactataat agtctcctgc tagagttata cgacgccctt 300
 tcctcatgat cgaaatgggg cacgcatt 328

<210> 6710
 <211> 341
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b12a1

<400> 6710

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 aacaccttct atactgaatc ggcacactgt ctttctatgg acacttgatg acagtcgttc 180
 tacaagatga ctccaacctg caggatgaca gtacatttgt attgcatatc agattcatag 240
 gtgcatttct tatgcttagt taaacgctca ccgttatgtt cctactcatg gatggattac 300
 gcgtcttctg caatgaaaac ttactgcct tcatccacga c 341

<210> 6711
 <211> 480
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081b12d1

<400> 6711

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 atatttatac atttgtacat caatgagatg agattagcaa gtaagtgaatg ataacagaca 120
 cgatagagtt aattaagtaa catagcacat gataataata atagtaattc gtaataacaa 180
 caatagtaag ctaactgtac aaaaggcttc ggatactttc aatttcccaa atcaatagag 240
 cgatgttgat gaatttcaa gacaaactcc ccaaaaaaga gatccttcac ttcttctctt 300
 cagtctttac ccaaatacca taccataaca taccacgaga tagaataaaa aatatttaca 360

cagactcgca tcttcacaaa taaatctgca ttgttaaata ttaataataa tatcagttaa 420
 ccagctccga gacccaccca acatccggag caccacttcc ttgacccgaa cccgtacccg 480

<210> 6712
 <211> 532
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c01a1

<400> 6712

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 caacattgat ggcagcaaca agttctggca ctcttaaagc aactcctttc ctaggccaag 120
 gcaaggggtgc caatgccaat gctcttaggg aatgtgttcc atggaaaggg ggaagtacac 180
 catgggcaat gatttgtggt atggaccaga cagagtgaaa tacttgggac ccttttcagc 240
 tcagaccctt tcatacttga aaggagaatt cccaggggat tatggatggg aactgctgg 300
 cttatctgct gaccgggaag catttgccaa gaacagggct cttgaggta tccatgggag 360
 atgggccatg cttggagcac taggatgcat cccccagag gtgctagaga agtgggttag 420
 agtggacttc aaggagccag tgtggttcaa agctggagcc caaatattct cagaaggtgg 480
 gcttgactat ttggggaacc caaaccttgt acatgcacaa agcatcctgg ca 532

<210> 6713
 <211> 367
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c01d1

<400> 6713

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 tctctttaa cattgctatg cctttttaat tgggcgctta aaacaaaacc tggatcaaca 120
 aacaggggcc tcccagtgt aagaatgaag cctccacct tatgaatgcc acttatccaa 180
 caattttttt caacatatgc tctcccccta gatcacaag gcaaccccaa gggttttaa 240
 cccagggatt cgggaaaaaa aaatcattta cgtttaaaaa cctggggcca acttaggggc 300
 ttaaacccaa gcttttgaaa ccacaggtgt actaggggtg gccaaaagg tctccaaagg 360

gcctttt

367

<210> 6714
<211> 372
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081c02a1

<400> 6714

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aggaagggttc tgcttctccg atttcaattt gattgaacga gtagtggtta gattatgata 120
tattttgaga agcttccttt ctctccttaa ctaaaccctt tgattgttcg gcttcatcta 180
ggaaattatt tgcactccat tcctggtagt atacattctc cccattccta tacagcctga 240
aattctacgt ggttaactct ctccgagttg attctatata ctatataagg tgattagatc 300
cactcctatc tatctctctc gctctctcgc tgtcgactcg acacctgac aagagaacat 360
ggaccctaata ca 372

<210> 6715
<211> 357
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmfl02220081c02d1

<400> 6715

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aaggggtggg gagaaccaga gatttgaagg ggccttcttt gcgaactagc ctaaggaaaa 120
aatgcttat tgtcggccaa aaaacagggg gatcaaggaa aatgggggga agcgacacaa 180
aggggggtccc cccccataa caaaattggg gggcaacaca atgggggggg tcttacatgc 240
gcgggcgccc aaatggacca aggggggggc gacaaacccc ttaagaggcc cggccctaaa 300
aaagggataa aaaaggcctt ttgaatccaa ggcgggataat ggaaaagggg ggccctt 357

<210> 6716
<211> 479
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081c03a1

<400> 6716

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cttcttcgtc tcaaacctct tcgttccttc gattcattcc atttcttcca aaatggccaa   60
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tatgattgct aggggagtgga tgctgggtcc tgaccagccc gtgatcctcc acatgcttga  180
cattcctcca gcagcagagt cgttgaatgg gggtaaaatg gaattggtgg atgctgcatt  240
ccctcttctt aaaggtgttg ttgctacaac cgatgtggtt gaggcattgca ctgggggtcaa  300
tattgcagtg atgggtgttg gattccctag aaaagaaggt atggagagga aggatgtgat  360
gactaagaac gtctgcattt acaagtccca ggcttctgcc cttgaaaagc atgctgctgc  420
caactgcaag gttcttggtg ttgctaacc agcacacacc aatgcattga tcttgaaag   479

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<210> 6717

<211> 338

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220081c03d1

<400> 6717

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gaaagctaac atgataaatt ttatttcattc agagggttaac ctatccaaag gtaaccactt   60
ctatgggtcc atttgaggtt ttaaagttca gacaaacata aacagaatct agaacattgt  120
ctagaaattt caaattaaat gtctgatttt cacacaatag agataaattt caactaccta  180
atcacagatt cctctaacac aaacctccaa gctacttcct aggtgaacgt gtgaagaagc  240
tagtccgata gcaagaagct agaggcagtt aatggaacgg aatcagtcaa ataatgatca  300
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<210> 6718

<211> 545

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220081c04a1

<400> 6718

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 gaagtagata ggtccctgtc taaagatagc atcatcatag tagattcttt gaataacatc 180
 aaggggtacc gatacgagct atgggtgcttg gctcgagcag cagggatcag atattgtgtg 240
 gttttctgtg atgttgaaga aaccatttgc aggaaatgga atgaagaacg caggagaaaa 300
 ggagaagcca attatgatga ttcgatattt gaagatttgg caagaagggt tgagaaacca 360
 gatagaagaa accggtggga ttctccattg tttgaattat ggccacacag agaagcaaca 420
 gagaaatctt cccctgctgt ttagatgct gtctcctact taaccaagaa agtggactcc 480
 aaaaccaggg atgttaagat actacaacca actattgcaa ctcanacctc gcgtttttct 540
 gatgc 545

<210> 6719
 <211> 306
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c04d1
 <400> 6719

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 aaccgcgcta caagaaaaat gacctttttt tattgacaga aagccgtcgc tttatattaa 120
 aaatccggag gtaaattgtat gatagacttc gccttacgga tatttcttcc ggccactttg 180
 ggggacatat aataacggat gattgggtgc cactataagc tttacctgct gtgtatagag 240
 gggagggaaa aggcattaaa ctgtgctgac ctcttctaac tgaaggtaaa agtctttaat 300
 atgtgg 306

<210> 6720
 <211> 570
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c05a1
 <400> 6720

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 aaggaagtgg ttgctcaagc atgcactagt gtggctgaca tcattagaga ttttggttat 120

gcaactcttg agccgtactt gtcccagctt gttgatgcaa cttcattggt gcttcaagag 180
 aaatcttctt gtcagcagat agagtcagac agtgaaattg atgatgttga tagtgcacac 240
 gatgaagtgc ttatggatgc aggttcagat cttctccctg catttgcaaa gaccattgga 300
 gctcaatttg ctcccatttt tgcacagcta tttgaacctc taatgaaatt tgcaaaatcg 360
 tctcgtcctc ctcaagatat gactatggca gttgcctgcc ttgctgaagt tgctcacaac 420
 atgggtttta ctatagcatg ctatgttgat aggggtgatgc ccttggactt aaagaactag 480
 catcatgcga ggcaactaat agaaggaatg ctgcattttg tgttggagag tttgcaaaaa 540
 tggatcatgaa cagctttgaa aactatgaca 570

<210> 6721
 <211> 410
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c05d1
 <400> 6721

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 ataggaaaga cacgatatct tttggaaaat caaatgctac ttatttcctt ttaagcaaca 180
 ttttgatagt ctactgaaac caatcacagg ccctaaaacc taaacaaaca aatttcttga 240
 cactactctt gactgctgaa aacaatgacc aactaaaatc gaaatgtaga tatttcaaaa 300
 ctaccattga gggcctaatt aacctaatac agagttagtc cttgacaccg gactctacat 360
 cgaatgattg ggagaaggct gcatattact ggggccattg accatcggat 410

<210> 6722
 <211> 494
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c06a1
 <400> 6722

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ccaccgccac caacatcaat atcctccacc acgacctcca atccgacatc accgaattct 180
 gcaagaaaac caccaacccc gccctctgtg ccgagaccat ccatactcac tttctcaaga 240
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 aaaaaaccct agccaacatt caaacctag aatccaaaac gggcaccacc aaatcgttca 360
 aggactcggt cgacatttgc aaggaccagt acaagagcat gctcgacgcc ttcaaggaaa 420
 ccaaagccgc gattgctaata aaggacatca tcaccgctaa gttcaagttc agtgctgttt 480
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<210> 6723
 <211> 297
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c06d1
 <400> 6723

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 ataaattgac cctgtcccg cctgatctc gacaaaaaca tggttactta tgtataaaaa 180
 tggacacctc acctgaaaaa tatgagacgg gttcggtgac ccatgccaat gccatggggg 240
 cggttggttag caccattata tttttgggtg gaacgagccc tttcgccatt tcataaa 297

<210> 6724
 <211> 503
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmf102220081c07a1
 <400> 6724

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 aggaacttga ttaccttggt ggggcagtat caaaccccaa aaggccatat gctgccattg 120
 ttggcggttc caaagtctca tctaaaattg gagtgattga gtcactttga aaaaaagttg 180
 acatccttct tcttggtgga ggaatgatct tgacatttta caacgcacat ggtcttttcag 240
 agggttcata cttgttagaa gaagataagt tggatcttga tacatcactg cttgcaaaag 300

cctaggaata gggggtgttt ttgttggtac caagtgatgt ggagattgca gacaaatttg 360
 ctctgatgc tgatagcaag gagctgccag catctgccat ccatgatggc tggatcggat 420
 tggatgttgg gtcacattct gttaaactcat tcaatgtatc gttggatact acccaaacca 480
 tgatatggaa aggaccaatg gga 503

<210> 6725
 <211> 500
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c07d1

<400> 6725

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 gagtatatgc ataatatatt actgttatac caaccttgca aattgacaag aagttcatgt 180
 ccgttacact gtctccaagt cccaaatcag gcaagttggt tccaaactcc ttcaatatca 240
 cctccttttt gtgaacacca acaagcacac caggctcctt agcgagcccc gtaaccctcc 300
 ccgacgccgt caccaccagc tttgtccga gcaccgtatc cgcgccgaga aacgttttcg 360
 cgaacggctc caccatcacc cgggggctcg ccgtgacaat gcaccgcctc cccccgaacg 420
 cggtgaacac gcgccacgtg gtggggtgca cgtcctcggc gtagaacctc ggcagcacgg 480
 agcgggacac gagctcgacg 500

<210> 6726
 <211> 526
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c08a1

<400> 6726

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 gcggagggtg gcaaagacct tcttagtaac ggtttatcat ctgtgattcc tgggtggttc 180
 tctgaaatca gtgcaatgtg gcctggagag gctcactcct tgaaggtgga aaagattttg 240

tttcaaggaa agtcagaata ccaaaatgtc atggtcttcc agtcatcaac atatggcaag 300
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 atgatcactc atcttctctt ttgctctatt ccaaacccta aaaaggtttt ggttatcggt 420
 ggaggtgatg gaggggtcat acgagaagta gcaagccatt ctttagtgaa aagatagaca 480
 tttgtgaaat tgacaagatg ggtgttgatg tctccaaaca atactt 526

<210> 6727
 <211> 506
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c08d1

<400> 6727

caaagagaaa tagatataat tattgagacg tacaagcatg cgtcttcaga attgcacaag 60
 tacttgcccta ggaaaatatt aaaagcataa gttaatacag gtggaccccc tagtccgcaa 120
 ctgaagttta atcacaataa ttcagtactt tccaacccaa ggacgtaaac taagagtaat 180
 tcaacatact actatcagct tagcttgcaa ttgcatcaa actgcttctt atggacacca 240
 ctaattgtat tcgtggctac gttgcttctt gtggcagggt catccgtgca attgaaaacc 300
 aggtttgacc ccatcatttg atcatttgat cagaatgcat cgaattgggt atgcctcaga 360
 gtgaaccaac ctaagaggca agcaattcag tgaatatatt cctgctggga catcatcaag 420
 ctttaggcct tccacaagaa tgatttcctt gcttttcagg aaaacaagat gagatggaat 480
 ggagtgatca taagcagcaa cagata 506

<210> 6728
 <211> 584
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <223> Clone ID: jC-gmf102220081c09a1

<400> 6728

gcacttagtg ctattcaata attacgaaaa accaacagcg agtggtggtt ttgtttggtc 60
 caggctggac cagggaatga atagagatga gaggctttcg gttgaagaga actgagttaa 120

gcggcgaagc caaacgcaga atcggcggca gaaattgcc a cgggaagcac gtcgaagacg 180
 ggtgaaccaa acacaaaatt ccatccacca cttctctttt caatcccaa ctcaaactcg 240
 tgaagaaaat ctcaatttct aaattgtaat tcttagcact actgctagta gtagtaaaaa 300
 aaaacaatta gaaagtagta gagtgttttt ttttcttttt ttcgtttggt ttacttttaa 360
 gatgggtgag aagagcaacg ttggcggcga cgcgattaac acgacactgc ttcacgggaa 420
 gtacgagctg ggccggctgt taggccacgg aaccttcgag aaggtgtacc acgcgcgcca 480
 cctgaagacg ggaaagagcg tggcgatgaa ggtggtgggc aaagagaagg tgggtgaaggt 540
 aggcgatgatg gagcanatca agagagagat ctacgccatg aaca 584

<210> 6729
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220081c09d1
 <400> 6729

agctcttctg ggtccgatta accgactgtt cgatccggaa gagcgccagc atgggcaacc 60
 taaccacta cgctggatcc gggacggctc ccgctccatg ttggtgagaa taaccggagg 120
 ataccggggg agacgcccgt tgaccgccgc tacagcggcc acggttactc ctccgaggac 180
 ttggaaccgg gatcttggtc tagctaccgt gaaagaaaga aggcaggtcc atggactgag 240
 gacgaacata taatgtcagg gcttgcattg cataaggtgg gcaaaggcga ttgacgtatg 300
 attgaaggaa ctatgttata taaaggac 328

<210> 6730
 <211> 425
 <212> DNA
 <213> Glycine max
 <223> Clone ID: jC-gmfl02220081c10a1
 <400> 6730

tgttatactc gccgtcagtg atgtacggc ccgtaagacc agcatactag ctcgggggcc 60
 gccctgtctt tttcattctt tttcaatttt aacaccatca aatgaacctg gtggtatgac 120
 tgaaaccgga ggagaaagca agactacagc tacactactg gagatcttaa actaaccac 180

002220.03250

gaaatataaa ctaattgtaa tgtaggaaag cacgggatac ctgaaatctc agacagagaa 240
aagggcatcg gtaaatecctg taataattat tgaatggaat gcagaatgta cgactaattc 300
tggacatact aataatagtt gacagtcata gtatcatgct atggatcggt tttgggggtca 360
ctttcagcct ctaacttagt gtcattttcc ttctcgactg gtgggtgacg actgatgtcc 420
acgct 425

<210> 6731
<211> 522
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081c10d1

<400> 6731

ggagaaatga agttttggta cctcaagctt accgcagagg atcagacctt tctgcttcct 60
gtgggtgacag ttcaccaaag atgataacaa ttctattaca cgaaagtgtt ttcaaatecg 120
gttccttggt ttatttcact gctgatagta tgcaatggat tgttgatgaa ctccctgatc 180
aggccctttt gaacactgct gaatggagat tccttatccc acaattatac aaaaaatatac 240
caaatacga catgaatctt aatatgtctg tatcttctcc accagatata caagtgacaa 300
acaaagatgt cgggtgtcaac attttcatag acataacaat tgatgttctg gaagatgggtg 360
aagacatacc tgttgcatgc atctcgggtg attttagtgc ctcttgtgct gtggaaatcg 420
taggaaacaa tcttgccggt tgcttaaatt gagaaagttt ccacgtactt gaaatggagt 480
taaataggga aactgcacat gaatttgatt tagtcagtga ca 522

<210> 6732
<211> 523
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081c11a1

<400> 6732

ctacactcag ctattcttac ctcttggcat gaccatccaa atgtcttctt ttctcttagc 60
ttctcttgct gttctctttt tcttctcttc cttggagaag agttttgcct ttcaagcact 120
aggaaaggag gacacagaaa gcaacaatct tcatcagtat actcatcgtg tacacctccg 180

ctcactcctt gcttcatctt cttgcaacta ttgtaccaa agtccccaaa caaaagcatc 240
 attagaagtg gtacacaaac atgggccatg ctcccaactg aatgatcatg atggcaaagc 300
 taagtctaca acaccacaca gtgacattct gaaccaagac agagaaaggg tgaaggacat 360
 taactcaagg ctctctaaga acttgagcca agatagtagc gttgaggaat tggactcagc 420
 taccctacca gccaaatgag gtagccttag tgggactgga aattactttg tgggtgtggg 480
 tcttgggaca cccaagaggg acttgtctct cattactgac act 523

<210> 6733
 <211> 363
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c11d1

<400> 6733

atcgacaatt tagatgatag aacttttata ttagaaccta tagagaagtt tattcaaact 60
 tagcctataa ccggaagtta aatagttatc aaaaagctgc cttacaata agattttttt 120
 tttcacattt gccaaaagca gaaaataaca agatagattc tctttctcca ttggaccaa 180
 acacagagcc tttggcaagt tatgctactg ggggcctgag aacatgggtcc tgtgaggtat 240
 caacagccgt aggtgataaa aactgcgaca tggcaactac tgggtggccc atgaatggca 300
 ccagcttggt gtcaacaatt tgtcctgatg cacacagaaa gctgggttgt gaactcaaag 360
 ctt 363

<210> 6734
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c12a1

<400> 6734

ctcgctgggt ttggttgctt cttttcttcg ttgcgacgcc aatggcttct acgggcgaga 60
 aagcaatgga tgtcgaagat gcagagaatg aagggtcagt tgcactctgct attctcaatt 120
 cgatagcgtc tcggcagaat gaagctcttt ctccagaaga tcttgcttgg gttgaatcct 180
 gcctagttaa agattctgat atttcagaca ctgattggat ccctttgaaa aatgctttat 240

tagatattat cagctccac cctcaatctg tcagcactga aggagaagac gttaaaattc 300
 ctccctacat tattagctct gaatatgcta atactgccac aacttctgat gagaaactta 360
 atctgcaatc ttcaacttct gatgagaaac ttattattct gcgatcttca acttctgatg 420
 agaaacttat tctgcaatct tcaacttctg aggggaaaca cttatctgag ctttcttcaa 480
 cttat 485

<210> 6735
 <211> 434
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081c12d1

<400> 6735

agcatctcaa aagttaatag ataacagaat tatttattgt aagtatatca atacaatctc 60
 aaatgagaaa gagagagggt atatacgtaa ttaacaaaca taatgaacat aatgagcaag 120
 aggtcggact cggagctaaa caaatcgaca aaacttaaatt tcctaataata gttcttatct 180
 gattaggtgg atgccttgcc aacgacctgg ggtccggata accattcttg ggatccataa 240
 tagccttata aataaggta taagcttcgg ccagtgacct ggccacgcca atagtagctt 300
 cagaacgcaa ccttgaacc tgcattctgt caaatccgg cagggaactt tcacttccca 360
 agataaggcc aaacagagct ttcaaact ccgaaagaac agctggacta gtgtcctcca 420
 tctcagccaa tggg 434

<210> 6736
 <211> 514
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmf102220081d01a1

<400> 6736

ggctgatttt ggtgactatt ttgggttgct tttcatttgg ctagcctcca tcttcatttt 60
 acgtgtaata ttattcacia agtctagcat cgagtcacgt ctacccccaa gtgctagagc 120
 cctccctgtg tgaggacacc ttaccttcc tcaccaaagc ttccccacc aaggcattcc 180
 acaacatctc aatacgttat ggtcctttgg tctacctctt gttcggttcc aagccttgtg 240

ttcttgtttc atcaccgaa atggcaagac aatgcctcaa aaccacgaa acatgtttcc 300
 taaaccgacc caaaagaacc aatttggact acatcacata cgggtcttca gattttgtgc 360
 tggcacccta tggaccctat tggagcttca tgaagaggct ttgcatgact gaactcctcg 420
 gtggccgcat gcttcaccag cacctttcca ttgagaaga agaaaccaag ctgtttttta 480
 agagtatgat gaacaaggct ttgtttggag agga 514

<210> 6737
 <211> 522
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081d01d1

<400> 6737

gcatgaatca actgacaatt tgatttgccc cttcattatg gtttggagtt taagttcatg 60
 caacatttca tgctaatttt gcacacaaga aaaaaaaggg tatttttttc ttcattaatt 120
 aatgcatgg atagactaaa acatgcacaa gcatagatta gacttcagca aaaggatgga 180
 gtctagccgc agggaaacat tgcaagggat gtgccctagg aagggccatt cctgggccct 240
 cttccatgtc aaccattccc ttcccttctt caccaacctt ccattcaaaa cactgaatca 300
 ttccagctag ggtgttgga ataactgca aagctagtga agcaccaggg cagcttcttc 360
 tcccagctcc aatgacaaa agttcaaaat gctgcccctt cagatccaaa ggactctgtc 420
 cctcttcgtt aaggaacctc tctggcttaa actcaagtgg attttccaa tagttagggt 480
 ccctaccaat ggcccacaca ttacaaaca aagtgggtcaa tg 522

<210> 6738
 <211> 485
 <212> DNA
 <213> Glycine max

<223> Clone ID: jC-gmfl02220081d02a1

<400> 6738

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 cgcgctccca tcattgttca ggtgcttcaa agcatgtgtt ttatgaacaa taagattttc 120
 agaagacatc taagagactt ctacccttg ctaacaaaac ttgtttgtgt gtgaccagat 180

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ggatgttcgg ggagctcttg gtgatttatt ccacgcacaa ctaaaacctc ttttaccata 240
accgtcgtat aatgccgctg ataatactgt gtgatacagat ggacgttcgg ggagctcttg 300
gcgattcatg ccaagcacaa ctgaaagctc ttttaccata actgtcttat aatgccgctg 360
ttaggattct cagatataaa ctccagggtg ttgccgttgt cagttctagc tggcttgag 420
agaagatata tggcggcttt ctttgtttta tcttttatgg aaattttgtg attgtgctaa 480
cagtt 485

<210> 6739
<211> 303
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081d02d1

<400> 6739

agaaaccaa ttacattgct atttcttttc tacaaaacgg ttagtacaat cacaaaattt 60
ccgttaaaag attaatacaa aaaaatgccg ccatattttt tttttccaag ccagctgaaa 120
ctgacaacgg caataccctg gagtttattt ctgagaatcc taacagcggg attataagac 180
agttatggca aaagagcttt aagttgcgct tggcataaca taccaagagc tccccgaacg 240
tacatctgat cacacaggat tatcagcggg attatacgac ggacatggta aaagaggctt 300
tag 303

<210> 6740
<211> 538
<212> DNA
<213> Glycine max

<223> Clone ID: jC-gmf102220081d03a1

<400> 6740

aaaaaagaaa atgatgctcg gagagcacca tcgcgcgaat ccaacggttc acgtgccacc 60
gtggccaacc cagcagatc caacggccga gatgtactcc gcgtttttta caaacgacgt 120
caatgctggt gagtactctc cgtactatct tcaagaagca ctaacggctc tgcagcgttt 180
tctgccgtct aacgaaacgg acgctgactc ggacacggag gctcaaccgg acgcggcggt 240
ggacgcgtac tcgtgcgacc atttccgcat gtacgagttc aaggtccgct gatgcgcacg 300